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FRIDAY'S NEWS, see COLOURED SUPPLEMENT.

INSETS.

("C. & D." Winter Issue, January 25, 1908.)

THE distribution of circulars and price-lists through THE CHEMIST AND DRUGGIST is a remarkably effective form of advertising to those who deal in chemicals, medicines, and other kinds of chemists' goods. It originated with THE CHEMIST AND DRUGGIST, and our method of distribution enables us to accept insets actually printed to the order of advertisers in the manner they desire. This is important, as such insets are not officially permitted to be distributed by newspaper post, while THE CHEMIST AND DRUGGIST method has official sanction. We thus ensure delivery, which to advertisers is a *sine qua non*. Besides, the distribution of such insets in a trade journal of the high business reputation of THE CHEMIST AND DRUGGIST is in itself a first-class introduction, and sure means of bringing orders. The Publisher will be glad to supply full particulars to any inquirer.

Summary.

The subjoined paragraphs give the gist of the more important matters in this issue, with the object of showing at a glance what has happened during the week. See also "Contents" in the first column.

THE WHITE PAPER PAGES of this issue are being passed for press on Christmas Eve, but the intervention of two holidays prevents the number being distributed until Friday, when news received that morning will be inserted in the Coloured Supplement. This issue concludes the seventy-first volume of THE CHEMIST AND DRUGGIST, and a complete index for the six months is inserted between p. 976 and p. 977. On a fly-leaf of the index is a list of galenical and other preparations not specified in the statutory schedules of poisons.

TO MANUFACTURERS AND EXPORTERS the most important news of the week is from Australia. We give the text of the Bill introduced into the House of Representatives on November 17 to amend the Commerce Act as regards the descriptions of medicines and medicinal preparations and foods intended for infants and invalids. The Bill does not contain the word "formula," but the regulations to be made under the Act would enable the Governor-General to authorise such disclosure.

WE explain the Bill and also present the views of the Hon. Josiah Mason, who is chiefly responsible for the measure (p. 961).

MR. THOMAS BEECHAM and another correspondent, replying to a letter in last week's issue, show how prejudicially the disclosure of formulæ would affect the interests of manufacturers of proprietaries (p. 981).

OTHER news germane to this subject are reported on p. 960.

SEVERAL CITY OF LONDON CHEMISTS have been prosecuted for inaccurate dispensing, and one of them was able, thanks to the C.D.A., to satisfy the authorities that the public analyst was wrong. The other two were fined 5*l.* each (p. 965).

AN INTERESTING RAILWAY rates case in regard to the classification of a stimulating cordial for the chest and lungs is reported on p. 964. The maker claimed that it should be carried as cordial and not as drugs.

IN a Christmas story told on p. 968, we are warned to be careful in dispensing methods.

RETAIL PHARMACY is by no means decadent. A beginner in business tells how in six years he increased his capital from 120*l.* to 3,000*l.* (p. 973).

STOCKTAKING and the Christmas holidays have restricted business in drugs and chemicals to urgent requirements only. Santonin is again dearer (p. 980).

A REVIEW of the drug and chemical markets, giving the principal movements during 1907, begins on p. 977.

ALL apprentices and junior assistants are invited to try the experiments detailed on the next page, and report the results to Dr. Dobbin. It will give them excellent practice in observation and description.

THE examinations of the Spectacle-makers' Company in November resulted in a goodly number of chemists getting the company's diplomas. Chemists also secured the two prizes for the highest marks (p. 974).

THE need for one Board of Pharmacy for South Africa is urged by Mr. Rawlinson, a Transvaal chemist. He considers that representatives from the Cape and the Transvaal could do the whole business (p. 982).

WHAT is cream of tartar? This question is put on p. 971 in view of the fact that one standard may serve for food purposes and another for the drug.

THE appointment of a pharmaceutical chemist (Mr. R. A. Robinson, jun.) as an officer to control the work of inspectors of weights and measures in Middlesex (p. 959), we regard as an important new departure (p. 971).

Corner for Students.

CONDUCTED BY LEONARD DOBBIN, PH.D.

Students, please note. All communications should be addressed to the Editor of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

All communications and reports must bear the names and addresses of the writers, not necessarily for publication. The reports of those who ignore this rule are liable not to be dealt with.

Exercises in Practical Chemistry.

THIS month, instead of an exercise in qualitative analysis, we submit to students one of the two sets of special exercises in practical chemistry intimated in our tournament announcement on September 21. A feature with respect to these exercises is that they can be carried out without the aid of any elaborate apparatus, so that they are specially suitable for a vacation period when many students have not access to an analytical laboratory.

In the first place, the following solutions are to be accurately prepared and put into separate bottles, each of which may conveniently be labelled with the name of the dissolved substance and the appropriate distinguishing letter :

- A. 5 grm. ammonium chloride dissolved in 100 c.c. distilled water.
- B. 5 grm. ammonium phosphate dissolved in 100 c.c. distilled water.
- C. 4 grm. ammonium oxalate dissolved in 100 c.c. distilled water.*
- D. 0.5 grm. magnesium sulphate dissolved in 100 c.c. distilled water.
- E. 10 c.c. liq. amm. fort. mixed with 50 c.c. distilled water.
- F. Liq. amm. fort. (undiluted).

EXERCISE I.

Mix in a sufficiently large test-tube, in the order given, 5 c.c. of A, 5 c.c. of B, and 5 c.c. of F, and allow to stand for five minutes. Then add 10 c.c. of distilled water and mix thoroughly.

- a. Describe the phenomena observed.
- b. State the chemistry of the changes which take place.
- c. Mention any bearings of the observed phenomena on qualitative analysis.

EXERCISE II.

In each of two sufficiently large test-tubes, label 1 and 2 respectively, mix, in the order given, 5 c.c. of D, 5 c.c. of A, and 5 c.c. of E. Next, to tube 1 add 5 c.c. of C, and (to make the volume of liquid the same in both tubes) to tube 2 add 5 c.c. of distilled water. Then add simultaneously to both tubes 5 c.c. of B, and rapidly shake up the contents of both.

- a. Report what is observed, comparing tube 1 with tube 2, one minute, five minutes, and thirty minutes after the addition of B.
- b. Mention any bearings of the observed phenomena on qualitative analysis.

Students' reports will be received up to Thursday, January 9.

SPECIAL NOTE.—The two exercises announced above form the subjects for the third competition in our winter tournament. The usual monthly first and second prizes in this series of exercises will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact *must be attested on their reports.*

REPORTS.

The powder distributed to students on November 27 contained 5 parts by weight of potassium sulphate, 3 parts

* Considerable saving of time may be effected by dissolving the ammonium oxalate in boiling water.

of ammonium phosphate, and 2 parts of ammonium hypophosphite. The calculated composition of such a mixture is :

K	...	...	...	...	22.4
NH ₄	...	...	...	...	12.5
SO ₄	...	...	...	...	27.6
PO ₄	...	...	...	...	21.6
H ₂ PO ₂	...	...	...	...	15.7
H	...	...	...	...	0.2
					100.0

Samples of the powder were distributed to forty-eight students, and thirty reports were sent in for examination. The failures in the detection of the several constituents of the powder were : (a) Metallic radicals—potassium 2, ammonium 2; (b) acid radicals—sulphuric 5, phosphoric 3, hypophosphorous 27.

The powder, which proved to be too deliquescent for convenient handling, was almost entirely soluble in water, only a faint turbidity remaining when a solution in distilled water was prepared. This turbidity was due to traces of metallic phosphates other than those of the alkali group, but in proportions too minute for successful examination in the quantity of the powder at the disposal of each of our correspondents.

The detection of potassium and ammonium did not present any difficulty, but the results show that the recognition of the acid radicals was not found to be an easy matter. We are not a little surprised at the large number of failures to detect the hypophosphite, since hypophosphites are salts with which students of pharmacy in particular are pretty familiar, and their behaviour when simply heated in air is very striking. When a small quantity of this month's mixture was gently heated on a fragment of porcelain, liquefaction and the evolution of water vapour and ammonia took place at a comparatively low temperature; and afterwards there was a somewhat copious evolution of minute bubbles of gas, which took fire, producing a succession of slight explosions, and burning with a luminous flame. We were under the impression that this latter behaviour, which is confined to phosphites and hypophosphites, would be quite certain to attract the attention of most of our correspondents, and would lead them to apply other tests which would enable them to confirm the presence of the hypophosphite. The behaviour of the aqueous solution of the powder when mixed with dilute nitric acid and silver nitrate was also very noticeable, no precipitate being formed immediately, but a slight darkening of the liquid soon setting in and a dark grey or nearly black precipitate gradually separating, due to reduction of the silver nitrate by the hypophosphite. Some students who observed this change attributed it to a sulphite or a thio-sulphate, regarding it as a confirmation of the presence of one of these which they had been led to suspect in consequence of the evolution of sulphurous anhydride when the original powder was heated with concentrated sulphuric acid—a result also due to the reducing action of the hypophosphite. Probably the best characteristic reaction for the hypophosphite was the behaviour with solution of sulphurous acid and aqueous solution of ammonium molybdate, the mixture slowly turning blue owing to the reduction of the molybdate.

It is worthy of note that none of the students who detected the hypophosphite made use of the magnesia-mixture reaction to test for a phosphate also, and, if present, to effect its separation; and so they scarcely placed the presence of the latter beyond doubt. The solution of ammonium molybdate used in testing for phosphates contains nitric acid in considerable quantity, and if warmed with phosphites or hypophosphites this oxidising acid would convert these, partially at least, into phosphates, which would then

produce the usual phospho-molybdate precipitate, even although a phosphate had not been present originally. Hence it is desirable when a phosphite or a hypophosphite is known to be present to separate any phosphate that may also be present by means of some non-oxidising reagent, and magnesia-mixture is the most generally convenient one for the purpose. The presence of a phosphate in the precipitate produced by magnesia mixture can be confirmed, after appropriate washing of the precipitate, by means of ammonium molybdate in the usual way.

Failure to find the sulphuric radical when present in so large a proportion as in this instance seems to indicate that the conclusion that a sulphate is absent is often arrived at much too hastily. The precipitation of barium sulphate on the addition of barium chloride, although immediate in moderately concentrated solutions of sulphates, only takes place somewhat slowly in dilute solutions; hence the mixture should be allowed to stand for not less than five minutes after the addition of the barium chloride, before any conclusion is arrived at.

Several students reported magnesium as a constituent of the powder—some reporting it as if it were present in quantity, others in traces only. Seeing that the powder was practically completely soluble in water, and that it yielded an alkaline solution which contained ammonium phosphate, the presence of magnesium in the solution could scarcely be expected, since ammonium magnesium phosphate would have remained insoluble. We tested specially for magnesium, however, in a relatively large quantity of the powder, but failed to obtain clear evidence of the presence of even a trace.

PRIZES.

The first prize for the best analysis has been awarded to H. S. ASPINALL, c/o Mr. W. F. Garry, 9 Tulse Hill, Brixton, S.W.

The second prize has been awarded to

NELLIE F. SING, Pendleton Dispensary, Police Street, Pendleton, Manchester.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

H. S. Aspinall (1st prize)	85	Aspirin	...	...	...	76
Nellie F. Sing (2nd prize)	84	R. W. W.	...	...	...	76
H. Booth	...	Wasp	...	...	...	75
Norseman	...	J. W.	...	...	...	73
Nil Desperandum	...	Query	...	...	...	72
Sulphur	...	Jas. A. Tennant	...	...	...	64
Zigo	...	Ebor	...	...	...	64
W. I.	...	Mayfield	...	...	...	64
W. J. G.	...	Metol	...	...	...	64
F. A. M.	...	Bluo Pill	...	...	...	62
Ruscus	...	Zero	...	...	...	40

2.—Correspondents who are qualified, or who have not indicated that they are unqualified:

Aabab	...	84	Salol	...	...	80
Boiling Point	...	79	Socius	...	...	98
Donald McKenzie	...	83	Student	...	...	80
Menai	...	78	Willing	...	...	16

TO CORRESPONDENTS.

CICERO.—You report "nil" as the result of heating the powder with concentrated sulphuric acid: we observed a well-marked odour of sulphurous anhydride on repeating this experiment—a result due to the reducing action of the hypophosphite.

OTTO.—We failed to obtain any evidence of the presence of a trace of a nitrate.

HERBERT BOOTH.—It is usually possible to judge with

moderate accuracy as to the proportions in which the constituents of a mixture are present, by noting whether precipitates are abundant or not, whether colorations are well marked or not, and so forth. "Impurities" are usually present in very small proportions only: where chemicals of a high degree of purity are used in preparing mixtures, they should not constitute more than traces.

NIL DESPERANDUM.—Note that an arsenate, unlike a phosphate, does not give a yellow precipitate with silver nitrate. Silver arsenate is chocolate-brown.

ZIGO.—Sulphurous anhydride could not give a brown stain, due to the formation of lead sulphide, on paper moistened with solution of lead acetate: hydrogen sulphide is the gas which does this.

W. I.—We attribute your finding of nickel to the introduction of some impurity from a dirty test-tube. Read the reply immediately preceding.

W. J. G.—The white precipitate which you took for zinc sulphide probably consisted of sulphur only. We were unable to obtain any indication of the presence of zinc.

F. A. M.—The gas you took for sulphurous anhydride was probably hydrochloric acid, volatilised when the aqueous solution of the latter was heated with the powder. The other reactions which you supposed to indicate the presence of a sulphite were due to the hypophosphite.

RUSCUS.—After adding sulphurous-acid solution and then aqueous solution of ammonium molybdate to a dilute solution of the powder, we obtained, on standing, the blue coloration due to the reduction of the molybdate by the hypophosphite. Your failure to obtain this coloration was probably due to the omission to add sulphurous acid. The powder did not contain a carbonate.

ASPIRIN.—We tested the powder for manganese and for a borate, but did not obtain any indication of the presence of either. Kindly give your name with any future report.

R. W. W.—The dark precipitate formed by the addition of ammonium hydrosulphide probably consisted of ferrous sulphide. The iron may have been contained in small quantity in the hydrochloric acid or in the ammonium chloride which you used.

WASP.—Both phosphites and hypophosphites give off hydrogen sulphide when heated to a moderate temperature. It is unfortunate that you did not think of testing for a phosphate by means of magnesia mixture.

J. W.—Solutions of sulphides give, at once, a black precipitate with silver nitrate. The gradual darkening of the mixture with the eventual formation of a black precipitate when you added silver nitrate to the original solution acidified with nitric acid was due to the hypophosphite.

METOL.—See the first part of the reply to "Ruscus."

QUERY.—Seeing that you tested for ammonia, your failure to find it is incomprehensible. On simply heating the original aqueous solution, ammonia was evolved in abundance. However, your detection of the hypophosphite, which eluded the vigilance of 90 per cent. of your fellow-students, goes so far to wipe out the result of your overlooking the ammonia.

BLUE PILL.—When you heated the powder in a test-tube you observed the evolution of a gas which burned inside the tube: it seems remarkable that this phenomenon did not lead you to suspect the presence of a hypophosphite. The absence of much hydrochloric acid should be carefully avoided when testing for phosphates by means of ammonium molybdate.

ZERO.—Phosphates, when heated either alone or along with inorganic salts generally, do not, as a rule, yield any volatile product having a "phosphorous odour." You omitted to give a summary of the constituents which you detected.

AABAB AND BOILING POINT.—As the result of several trials under varying conditions, we failed to observe the darkening which you noted on heating the powder with concentrated sulphuric acid.

DONALD MCKENZIE.—The gas evolved when the powder was heated with concentrated sulphuric acid was sulphurous anhydride—not chlorine.

MENAI.—The powder did not contain arsenium in any form, and, hence, it could not show the characteristic behaviour of an arsenate when treated with hydrogen sulphide.

SALOL.—Schemes of analysis have been devised which do not require the use of hydrogen sulphide, but they have not met with much favour, and do not seem likely to be adopted. A separation of phosphate from arsenate by means of ammonium molybdate is not practicable. Your supposed arsenate reaction with silver nitrate was really the reduction of this reagent by the hypophosphite.

SOCIUS.—Your analysis and report are very satisfactory. Your plan of comparing the reactions of a suspected hypophosphite with those of a known hypophosphite, with a view to confirming the suspicion, may be commended to the notice of all our correspondents, since some of them may, one day, find it expedient to deal with an analogous problem in a similar manner.

STUDENT.—Had barium been present along with the sulphuric radical, the mixture would not have been "readily soluble in water."

English News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

A fire occurred at the Brindle Chemical-works last week, and damage to the value of about 50*l.* was done.

The new soapworks of the Co-operative Wholesale Society at Silvertown will be opened in February or, at the latest, the beginning of March.

A young Devonshire farm-labourer named Down has been arrested on a charge of putting foot-rot lotion in tea, with intent to poison his master and mistress.

Boots, Cash Chemists, Ltd., are to issue early in 1908 a price list of about forty-eight pages 8vo, and it is expected that a million copies will be issued. It will contain advertisements at the rate of about 150*l.* per page.

The "Daily Mail" intimates that "the differences which existed between ourselves and Messrs. Joseph Crosfield & Sons, Ltd., the well-known soap-makers of Warrington, and which resulted in legal proceedings, have been satisfactorily settled."

The Brighton Bench have granted transfers of the chemists' wine-licences at 52 King's Road from the executor of the late Mr. W. R. Cook to Mr. William Herbert Hewett, and at 135 Queen's Road, 36 St. George Road, and 69 Lewes Road from Mr. Cornelius Crowhurst to Mr. John Simpson.

At a meeting of the Three Towns Chemists' Association, held in Plymouth on December 18, Mr. H. Noel Hearder gave a lecture on the "Acids of the Pharmacopœia" to a good attendance of members. Details of lectures for the remaining half of the session will be issued early in the New Year.

A sequel to the recent assault on Mr. Leonard Horner was heard before Mr. Justice Swinfen Eady in the Chancery Division of the High Court of Justice on December 19, when a motion arising in connection with the action *Camachs & Co., Ltd., v. Horner* was heard. Plaintiffs asked for an order demanding from the defendant the immediate delivery of the company's seal, books, and documents, and restraining him until the trial of the action or further order from parting with the seal or books, etc. His Lordship made the desired order.

Society of Chemical Industry.

A meeting of the Nottingham Section was held at University College, Nottingham, on December 18, Mr. O. Quibell being in the chair. Mr. S. R. Trotman, the Hon. Secretary of the Section, read two papers. The first one, on the analysis of disinfectants containing resin, dealt with experiments which showed that in the presence of resins the ordinary processes of estimating tar acids in disinfectants by distillation give results which are too high, owing to the resin acids being carried over with the phenol. The second paper was on the effects of the "soda boil" on cotton. This gave details of experiments conducted to ascertain the correct lengths for loss in weight and alteration in counts in cotton yarn caused by the soap boil.

Prescribing by Chemists.

At an inquest held at Southwark by Dr. F. J. Waldo on December 20, it was stated that the deceased (an old man named Fothergill) was prescribed for by a chemist during his illness; he would not call in a doctor. The evidence of Dr. James Morris Stoker, of 221 New Kent Road, S.E., was to the effect that death was due to pneumonia and heart failure, and was purely natural. Questioned by the Coroner, the doctor said that Mr. Clark, a local chemist, had called on him (witness) and had explained that deceased had gone to his shop for years. He purchased usually bottles of quinine-and-iron tonic, but latterly he had been supplied with a liniment for his foot. Then came the following examination:

The Coroner: Is it usual for a chemist to prescribe?—Witness: No, it is not at all usual, although I believe it is done.

The Coroner: Is it an offence for a chemist to prescribe?—Witness: Not that I know of.

The Coroner: This quinine and iron, is it regular in law that it should be sold in this way?—Witness: I know of no law to prevent it.

The Coroner: Do you consider it right?—Witness: I certainly do not. The chemist seems to be able to do everything a doctor may do, except give a death certificate.

The Coroner: Can he examine a patient?—Witness: Yes, certainly, I should say so.

The Coroner: May he see a patient in his back room so as to have a thorough examination?—Witness: Yes, I think so; I know of nothing to stop him.

The doctor did not suggest, however, that the treatment by the chemist in this case had anything to do with the death, and a verdict of natural causes was returned.

Contracts.

Hull Guardians.—Mr. R. F. Jones, chemist and druggist, 167 Anlaby Road, Hull, for drugs.

Isle of Thanet Guardians.—Jeyes' Sanitary Compounds Co., Ltd., for disinfecting fluid at 4*s.* per gal.

Cumberland Infirmary.—Mr. T. Ridley, chemist and druggist, Carlisle, for emergency drugs for the ensuing year.

Islington Guardians.—Messrs. C. J. Hewlett & Son for drugs; Hospitals and General Contracts Co. for druggists' sundries. From the last-named contract bottles have been deleted, and prices are to be obtained for same as required.

Motor Lorries.

Three of Messrs. Allen & Hanburys' commercial motor-vehicles with their drivers entered the competition of the Commercial Motor-users' Association on December 14, the Thames Embankment being the meeting-place. The drivers were examined as to their knowledge and experience of driving and of their machines, and William Winn, one of them, received the first of the third prizes of 1*l.* He is the driver of one of the firm's Thornycrofts, which has travelled 39,200 miles in its day. The other two have travelled 32,400 and 40,400 miles. One of the objects of the competition is to encourage the use of motor-vehicles in the delivery of goods, and this largely depends upon the carefulness of drivers. This year's competition was limited to a radius of twenty miles from Charing Cross, London, and driving steam lorries and tractors which had been in use not less than twelve months were alone admitted. It is proposed to extend the scheme to other centres next year.

Midland Notes.

There died last week, in his eighty-third year, a noted twine-maker of Birmingham, Mr. George Edwin Mewis, who was well known to chemists.

Members of the local section of the British Medical Association at Coventry have decided not to meet professionally the recently appointed dispensary doctors.

The absence of Colonel Wyley is much felt at this juncture in the formation locally of a branch of Mr. Haldane's territorial army system, but it is understood that he will act upon the Warwickshire Committee, with the Marquis of Hertford at the head.

We have heard of the professional window-dresser in trades outside pharmacy, but surely there must be such among us, and he had been secured by Messrs. Hedges, for at all their shops, particularly at King's Heath and the Arcade, richness bedecked the windows made up of Christmas goods, assisted by artistic drapery.

Funeral of Lord Kelvin.

The remains of Lord Kelvin were buried in Westminster Abbey on December 23. The grave is in that part known as "Science Corner," and close to those of Newton, Darwin, and Herschel. The pall-bearers were, on the one side, Lord Rayleigh, Mr. John Morley, Sir A. Geikie, Professor A. Crum Brown, the Master of Peterhouse, and Sir J. Wolfe Barry; and on the other side Admiral of the Fleet Sir E. Seymour, M. Gaston Darboux (Royal Academy of Sciences of France), Lord Strathcona, Dr. MacAlister (Principal of Glasgow University), Sir G. Darwin, and Dr. R. Glazebrook. There was a great assemblage of mourners, among them being representatives of the King and the Prince of Wales, many Fellows of the Royal Society, the Vice-Chancellors of Oxford and Cambridge Universities, and numerous distinguished men of science, representing learned societies at home and abroad. The service was conducted by the Dean of Westminster and the Sub-Dean, Canon Duckworth.

A New Departure.

At the meeting of the Middlesex County Council on December 19, Mr. R. A. Robinson, jun., pharmaceutical chemist and barrister-at-law, was appointed chief officer to organise and control the work of the Inspectors of Weights and Measures and their assistants. There were forty-eight applicants for the position, the salary attached to which is 400*l.* per annum. Mr. Dobson, one of the members, moved to refer the Committee's recommendation back, and said that in his opinion the best selection was not made. Mr. W. Davies seconded and Mr. Scott supported the amendment, which, however, was lost. Mr. Robinson will have to deal with the Acts relating to food and drugs, weights and measures, explosives, shop hours, shop assistants, fertilisers and feeding-stuffs, merchandise marks, smoke nuisance, etc.

[It is stated that the applicants included the Chief Inspectors of Weights and Measures at Liverpool, Smethwick, West Bromwich, and other similar officials. A London evening paper severely criticises Mr. Robinson's selection, and adds that "The General Purposes Committee dismissed all the inspectors who were candidates, and added that Mr. Robinson had intimated his willingness to sit for the Board of Trade examination for an inspector of weights and measures at an early date, so that he could, should occasion require, act in the statutory capacity of an inspector." We refer to the appointment in a note on p. 971.]

Welsh News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor, who also invites reports on business changes and other trade matters.

Federation.

The Hon. Secretary of the Cardiff Pharmaceutical Association has sent circulars to the Secretaries of the Grocers', Bakers', and Butchers' Associations suggesting that they should federate with the chemists for their mutual benefit.

A Lantern Show.

While Alderman I. J. Hughes was giving a lantern-lecture to children at Bridgend on December 22 a series of reports and flashes from the acetylene lamp caused a panic. In the darkness which supervened, the room was filled with the fumes of the escaping gas, and the children made desperate efforts to escape, in the course of which many of them were trampled upon and injured, but fortunately in no case seriously.

Irish News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Waterford Drug-contract.

At the last meeting of the Board of Guardians a letter was read from Messrs. Boileau & Boyd in reference to delay in the delivery of the workhouse drugs (see *C. & D.*, December 21, p. 920). The letter contained the dates of orders received and despatched, showing that there had not been excessive delay in executing the orders. As the dispensary doctors allege that it usually takes three weeks to fill orders, the letter has been referred to them for a reply.

Personal.

On the recommendation of the Earl of Kenmare, Lieutenant of the county Kerry, Mr. Patrick D. Foley, pharmaceutical chemist, Killarney, was on December 12 sworn in before Captain Crane, R.M., as a Justice of the Peace for the county.

At Dublin on December 19, the degree of Bachelor of Arts was conferred at Trinity College (Dublin University) on Miss Jane Townley Wells, daughter of Mr. W. F. Wells, pharmaceutical chemist, ex-President of the Pharmaceutical Society of Ireland. Miss Wells also won a front-rank place as junior moderator in Arts.

Libel Action Withdrawn.

In the King's Bench Division, Dublin, on December 19, in an action brought by Dr. J. C. McWalter, M.P.S.I.,

proprietor of Dr. Leonard's pharmacies in that city, to recover damages for alleged libel from a brother Corporation councillor named P. T. Daly, the plaintiff served notice that he intended to discontinue the action. The case was accordingly struck out.

Scotch News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Aberdeen.

Mr. Wm. Allan, M.A., B.Sc., who has recently been appointed to be Vice-Principal of the Elsenberg College of Agriculture, Cape Colony, is a graduate of Aberdeen University. For the past four years Mr. Allan has been on the staff of the Edinburgh and East of Scotland College of Agriculture.

Chemists in Aberdeen, especially those in the busier thoroughfares, have shown, as in former years, that they can easily "hold their own" with other shopkeepers in the matter of attractive Christmas windows. Mr. Robert Hunter has a very fine display of cased perfumes and toilet-requisites in both windows of his pharmacy. Mr. P. D. Milne has an excellent selection of perfumes very tastefully arranged. In the choice of some of his lines Mr. Milne has been particularly happy. Mr. A. P. Wallace has as usual something original. In the centre of his window is a miniature stage, the "actors" upon it being small cut-glass bottles of perfume. The scenery at the back can be removed and replaced by a white screen whereon, with the aid of a lantern and suitable slides, Mr. Wallace advertises his various specialities. The stage, the scenery of which is hand painted, is the work of Mr. Edwin Wallace. Several chemists of the older school who have not yet discarded the specie jar and carboy have contented themselves by displaying their Christmas perfumes on their counter show-cases.

Chemists as Riflemen.

There are many chemists and their employes in Scotland interested in shooting and Volunteering, and to those it will be good news to learn of the formation of the Edinburgh and Midlothian Association of Civilian Rifle Clubs. The founder and first President is Mr. R. B. Henderson, of the Inland Revenue Office, Edinburgh, and the object of the Association is the furtherance of the art of rifle-shooting. The Association encourages the fitting-up of indoor miniature rifle-ranges, and gives advice on all matters relating thereto. The Association places before employers—manufacturing chemists and others—the desirability of forming rifle clubs among their employes. Several firms in Edinburgh have fallen in with the idea, and have fitted up and have equipped ranges for the use of their workers. A miniature indoor range (over twenty-three yards in length) may be completely fitted and equipped for less than 20*l.*, and the cost of maintenance is small. Mr. J. Gordon Nicholson, pharmaceutical chemist, Edinburgh, is (by introduction) a member of the Civil Service Club, and other chemists are members of other clubs affiliated in the Association. The movement is one deserving of the consideration of all in the drug trade.

Edinburgh Doctors' Deaths.

The medical profession in Scotland has suffered severely during the past week by the deaths of Mr. Amundale, Professor of Surgery in the Edinburgh University, and Sir Patrick Heron Watson, M.D., who had enjoyed a large consulting practice for many years, and was a member of the General Medical Council from 1882 to 1906 as representative of the Royal College of Surgeons of Edinburgh.

Edinburgh Pharmacy Athletic Club.

In the Swimming Section the semi-finals of the tournament have resulted as follows: E. O. Rowland (scratch), first; J. Weston (thirteen seconds), second. Geo. Dodds (four seconds), first; J. Noble (thirteen seconds), scratched. The final result was: Geo. Dodds (four seconds), first; E. O. Rowland (scratch), second. An easy win, in the smart time for the fifty-three yards of 38½ seconds.

Australasian News.

The fullest information regarding the Australasian drug-trade and pharmacy is given in "The Chemist and Druggist of Australasia," copies of which can be obtained at 6d. each, post free, from the office of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

Note.—"The Chemist and Druggist" is regularly supplied by order to all the members of the following, among other societies:

Central Pharmaceutical Association, N.Z.
Otago Pharmaceutical Association, N.Z.
Pharmaceutical Society of New South Wales.
Pharmaceutical Society of Queensland.
Pharmaceutical Society of South Australia.
Pharmaceutical Society of Tasmania.
Pharmaceutical Society of Western Australia.

New South Wales.

THE MANUFACTURING CHEMISTS' AND PROPRIETORS' ASSOCIATION, Sydney, at a recent meeting accepted the resignation of Mr. G. Fred Birks of the position of Hon. Secretary. He had found that the position occupied more time than he could give to it. Mr. Rex Cullen Ward, of 113 Pitt Street, Sydney, was appointed Secretary. Mr. H. O. Rogers, of 59 Pitt Street, Sydney, is Acting-Chairman during the absence of Mr. Alex. Markell.

PROPRIETARY MEDICINES BILL.—On November 13, on the motion of Mr. Meagher, it was resolved, in the Legislative Assembly, without debate, as follows: "That this House will, on its next sitting day, resolve itself into a Committee of the whole House to consider the expediency of bringing in a Bill to provide that all patent medicines and preparations for application to the human body, imported into, sold, or offered for sale in the State, shall legibly set forth, in English, the contents with their exact proportions upon a label affixed to the bottle, box, or container, and if containing any poisonous ingredient specially setting forth same."

New Zealand.

PROPRIETARY MEDICINES.—A feature of the proposals of the New Zealand Committee on the Anti-Quackery Bill is that proprietors are to be allowed to sell medicines if they can prove to the satisfaction of any Judge of the Supreme Court that his preparation or medicine is an original or a secret one. He is then excused from the necessity of printing the formula on the package. How it will be possible for a proprietor to convince a judge that the formula is original and secret without disclosing it and so destroying the secrecy is not stated.

HOSPITAL DISPENSARY APPRENTICES.—In reference to a letter from the Registrar of the Pharmacy Board of New Zealand, in which it was stated that the Pharmacy Act does not allow the Board to recognise apprenticeship to a hospital dispenser, a question has been asked in Parliament. The Minister said he considered it unfair that an apprenticeship served in the dispensary of a large hospital should not entitle the apprentice to go on for examination and registration under the Pharmacy Act, and that he would endeavour, if possible, to have the Act amended. The Minister has evidently not considered the question from the point of view of the apprentice. The question of whether the training obtained is such as would fit the young man for serving the public in a pharmacy does not seem to have been considered.

THE WILSON PILL CO., LTD., has been registered with a capital of 5,000*l.* in 5,000 shares of 1*l.* each. Registered office: Wanganui. Objects: To buy, prepare for market, manufacture, sell, trade, and deal in Wilson's pills.

Western Australia.

PROPRIETARY MEDICINES.—The Consolidating Health Bill now before the West Australian Parliament makes some new provisions with reference to proprietary medicines. Clause 200 reads as follows:

No person shall sell any patent or proprietary medicine unless such medicine is registered in the prescribed manner at the office of the Central Board, and the words "Registered with the Central Board of Health" are distinctly and legibly written or printed on a label affixed to the bottle, pot, box, or packet containing the same.

The Central Board may, in its discretion, refuse to register any patent or proprietary medicine—

- (a) if the details of the composition of such medicine are not disclosed by the applicant for registration; or
- (b) if deemed by the Central Board to be deleterious or dangerous to health.

The words "Registered with the Central Board of Health" written or printed on the bottle, pot, box, or packet containing any medicine which is not registered as a patent or proprietary medicine at the office of the Central Board shall be deemed a false trade-description.

The Central Board and its officers shall not disclose the details of the composition of any medicine registered under this section.

The fees prescribed by regulation shall be payable on the registration of any patent or proprietary medicine under this Act.

For the purposes of this section "patent or proprietary medicine" means and includes any medicine or medicinal preparation for external or internal use which the maker or vendor has any exclusive right to make under the authority of letters patent, or which is recommended to the public by advertisement, price-list, handbill, or label for the prevention, cure, or relief of any malady or disorder incident to or in anywise affecting the human body.

This section shall not come into operation until the first day of August, one thousand nine hundred and eight.

It will be noticed that this applies to all patent and proprietary medicines whether imported or manufactured within the State. The question was considered by the Pharmaceutical Council of Western Australia, which decided to formulate some alterations in the interests of medical practitioners and pharmacists.

THE CONSOLIDATING HEALTH BILL now before the House contains a number of provisions corresponding in most cases to those in force in other parts of Australia, and previously in force in Western Australia itself. In addition to those referring to proprietary medicines mentioned above, some clauses are rather novel. Clause 199 is as follows:

No person shall sell or offer, store, expose, or advertise for sale any food or drug bearing a description which, or the advertised description of which, is misleading, or if relied on might cause injury or danger to health.

By Clause 204 the British Pharmacopœia is to be the standard for any drug unless some standard has been settled and appointed under by-laws. Disinfectants are the subject of Clause 209, as follows:

(1) Any person who sells or exposes for sale any substance or compound under the name or description of or with intent that the same may be used as a disinfectant, deodoriser, germicide, preservative, antiseptic, sanitary powder, or sanitary fluid, without disclosing the name or names of such substance or compound, and the percentage of the active ingredients contained in the same, by a label distinctly and legibly written or printed on or with the substance or compound, shall be liable to a penalty not exceeding fifty pounds.

(2) The provisions of this Act relating to the analysis or examination of food and drugs shall apply to all substances and compounds in this section referred to.

Clause 210 says that any trade description applied to the article or to any covering of any kind will be applied under the Act, and Clause 211 makes it an offence to sell or offer for sale any food, disinfectant, or drug to which a false description is applied. Regulations by Clause 212 can be made by the Governor-in-Council on the following matters among others:

(3) For the taking of samples of foods, drugs, and disinfectants, and for the examination or analysis thereof.

(4) Settling and appointing standards for the composition of foods, drugs, and disinfectants, and, subject as hereinbefore provided with regard to spirits, the amount of dilution, if any, to be allowed in the sale by retail of any foods or drugs.

(5) Regulating the printing and wording upon labels and brands to be used in the sale of mixed or altered foods, drugs, or disinfectants.

(6) Regulating marks to be applied to food, drugs, or disinfectants deemed by the Central Board wholesome or effective, and prescribing the fees to be paid for the inspection and marking of food, drugs, or disinfectants.

(7) For the prevention of adulteration of foods, drugs, and disinfectants.

It is interesting to note that "drug" means any substance, organic or inorganic, used as medicine, or in the composition or preparation of medicines, whether for external or internal use, and includes tobacco and perfumes.

Australian Commonwealth and Proprietary Medicines.

Text of the new Bill, with explanation and interview with the Hon. Josiah Thomas.

IN the Australian House of Representatives on November 19, the long-expected Bill to amend the Commerce Act, 1905, so as to provide for fuller disclosure of the composition of imported proprietary medicines, was introduced and read a first time. Following is the full text of the measure:

A Bill for an Act to amend the Commerce (Trade-descriptions) Act, 1905.

Be it enacted by the King's Most Excellent Majesty, the Senate, and the House of Representatives of the Commonwealth of Australia, as follows:

Short Title and Citation.—(1) This Act may be cited as the Commerce (Trade-descriptions) Act, 1907, and the Commerce (Trade-descriptions) Act, 1905, as amended by this Act may be cited as the Commerce (Trade-descriptions) Act, 1905-1907.

Trade Secrets in the Case of Medicines and Infants' and Invalids' Food.—(2) Section 16 of the Commerce (Trade-descriptions) Act, 1905, is repealed, and the following section substituted in lieu thereof:

16.—(1) In respect of any goods being medicines or medicinal preparations for internal or external use, or articles intended for food for infants or invalids, if the Governor-General is satisfied—

(a) That any trade-description or part of a trade-description required by the regulations under Section 7 or 11 of this Act would involve the disclosure of trade-secrets of manufacture or preparation; and

(b) That such disclosure is not necessary for the protection of the health or welfare of the public, he may by order allow the trade-description with respect to those goods to be modified in such manner as he directs.

Trade Secrets in Other Cases.—(2) With respect to goods other than those mentioned in the preceding sub-section, the regulations under sections seven and eleven of this Act shall not prescribe a trade-description which discloses trade-secrets of manufacture or preparation, unless in the opinion of the Governor-General the disclosure is necessary for the protection of the health or welfare of the public.

(3) In respect of any goods being medicines or medicinal preparations the regulations may prescribe a trade-description stating the ailments and diseases which they are intended to alleviate or cure.

EFFECT OF THE BILL.

Section 16 of the 1905 Act, which it is proposed to repeal, is as follows:

The regulations under Sections 7 and 11 of this Act shall not prescribe a trade-description which discloses trade-secrets of manufacture or preparation, unless in the opinion of the Governor-General the disclosure is necessary for the protection of the health or welfare of the public.

Section 7 provides for a trade description on goods, and the exclusion on importation of such as are not described according to regulations, and Section 11 does the same for goods exported. By Section 15 the provisions in Sections 7 and 11 are restricted to

(a) articles used for food or drink by man, or used in the manufacture or preparation of articles used for food or drink by man; or

(b) medicines or medicinal preparations for internal or external use; or

(c) manures; or

(d) apparel (including boots or shoes) and the materials from which such apparel is manufactured; or

(d a) jewellery; or

(e) seeds and plants.

The effect of Clause 2 of the Bill is to repeal and re-enact Section 16, except as regards

medicines or medicinal preparations for internal or external use, or articles intended for food for infants or invalids.

It will be observed that the Bill does not refer to formulæ, and should disclosure of these form part of the regulations made under Section 7 of the Act, it appears to be intended that persons aggrieved should apply to the Governor-General for relaxation of the conditions *a* and *b* in the new Section 16 (1). To prove that a trade secret would be disclosed will probably need only

the affidavit of the proprietor. To prove that the disclosure is not necessary for the protection of the health or welfare of the public is more difficult; but the presumption is that the proprietors would be put upon the defensive. At the moment this is of secondary importance to the fact that the terms of the Bill are such that it does not necessarily follow, if it passes, that formulæ will have to be disclosed in all or any case; but it is a permissive measure, and, if passed in its present form, the trouble may be never-ending. This is, of course, an extreme view; but it is desirable that the worst possible should not be lost sight of. On the other hand, the terms of the Bill do not prohibit such regulations as at present exist—viz., declaration as to alcoholic and narcotic constituents of drugs. These regulations would give "the protection of the health or welfare of the public" required by the Act in the majority of cases, and an additional regulation might require investigation in the case of fraudulent and promiscuous medicines of a secret nature.

Sub-section 3 of the Bill is curious in view of the fact that it was extraordinary and all-embracing claims in respect to the curative powers of medicines which incited the measure. The purpose of the sub-clause apparently is to bring medicines within the purview of Sections 10 and 12 of the Act relating to false descriptions, so that if a medicine were said to cure or alleviate something which it does not its importation or exportation could be absolutely prohibited. In short, the sub-clause opens the door to new possibilities.

INTERVIEW WITH MR. THOMAS.

The man who more than any other is held to be responsible for inciting this piece of legislation is the Hon. Josiah Thomas, who, a few months ago, being dissatisfied with an answer on the subject by Sir William Lyne, moved the adjournment of the House of Representatives, thus initiating an hour and a half's debate on the subject. As a result of that Sir William Lyne definitely promised legislation.

Mr. Thomas was interviewed by the Editor of the "Chemist and Druggist of Australasia" immediately before the Bill was introduced, and from the notes of the interviewer we extract the following:

Mr. Thomas is a Cornishman, son of Cornish parents, who removed early to Mexico. He was for a time on the celebrated Dolcoath Tin Mine in Cornwall, for many years on silver mines in Mexico, for a time a representative of an English mining company in Spain, and in 1885 he came to Melbourne. Two years later he went to Broken Hill and worked as a miner. In 1894 he was elected by the miners' votes in Broken Hill to the New South Wales Legislative Assembly, and when in 1901 the Commonwealth Parliament was elected he was returned for the immense constituency of the Barrier, extending from Cockham and Broken Hill on the South Australian border, to Wentworth on the Victorian border, and Tiboburra and Yalpurga on the Queensland border.

Mr. Thomas has made the "Publication of the Formulæ of Proprietary Medicines" one of his main subjects of attack on the Ministry, and his persistence has at last got on the nerves even of the equable and diplomatic Mr. Chapman, Minister of Customs. Instead of the soft answer that turneth away wrath Mr. Chapman exploded the other day in the remark: "The hon. member is one of those who think that



MR. THOMAS.

the subject he is interested in must be the first to be dealt with." The remark is true, and Mr. Thomas is not wrathful.

"What led you to take up this subject?" was our very natural question.

"Some years ago," said Mr. Thomas, "I was in Sydney as chairman of a Commission when I received a very touching letter from Cobar from a man connected with the Australian Mining Association, who was evidently dying of consumption. 'Will you tell me,' it said, 'if there is any truth in the testimonial sworn by X Y Z before you as J.P. that he was cured of consumption by taking Pink Pills? Please write at once, as, if it is true, I will take a course.' I wrote back at once that I did not believe there was any truth in it. I know the man who is said to have given the testimonial. I remember clearly that on one occasion he asked me where he could find me a little later as he would like me as a J.P. to witness some papers. But I have no remembrance of acting as witness. Still, as Justice of the Peace my duty is only to witness a signature, and the merest courtesy would restrain me from reading the document. So it is quite possible that my signature may be attached to the so-called testimonial."

After some more remarks on the subject Mr. Thomas added: "In the Commonwealth Parliament we can only touch importations. We cannot deal with anything done within the States. I expect the publication of the formulae will prevent the importation and sales of a great many medicines."

Upon this the Editor said: "You mean of medicines which will not publish their formulae—perhaps such as Beecham's pills and others which have a very high reputation?" To this Mr. Thomas replied in the affirmative, and went on to say that advertisements can sell anything; to which the interviewer replied that they may sell a medicine once to one patient, but unless it really answers the purpose it is designed for, and is both pleasant and efficacious, that patient will not buy it again. He then put it to Mr. Thomas that publication of formulae will not deter people from using such remedies; while the approval process foreshadowed in the Bill will give medicines a kind of Government sanction.

Mr. Thomas thereupon said: "We cannot do everything at once. This is only the first step. If the Commonwealth Parliament could do it I would be prepared to put a stop to all fraud in connection with the sale of medicines. I am pleased to notice that the stir made in our House is arousing attention in the State Parliaments, and in New South Wales Mr. Arthur Griffiths referred to the subject in debating the address in reply." Mr. Thomas proceeded to say that "the Bill will be easily carried because the House unanimously carried the resolution I moved to that effect. I know there is tremendous pressure against it, and that the proprietary-medicine owners have immense influence with the Press."

This last remark led to a conversation about how newspapers can be influenced by proprietors of "patent" medicines. Mr. Thomas stoutly maintaining that the Australian Press had been threatened. "See," he said, "the cable that was sent from England by the owners of the proprietary medicines, threatening to withdraw their advertisements from the Australian papers if the Government demanded the publication of formulae. Does not that look as if the proprietors were of the opinion that pressure could be brought to bear? And then I have it on the best authority that the firm of Beecham wrote that rather than publish their formula they would give up all advertising and cease to do business with the colonies."

The honourable gentleman appeared not to realise that if trading conditions in Australia are made impossible the cessation of trading propaganda must necessarily follow. The rest of the conversation was devoted to the attitude of doctors towards proprietary medicines and to political questions of Commonwealth interest.

TEST FOR ALUM IN BREAD.—A linotype error on p. 210 of the *C. & D. Diary*, 1908, has been detected since it was printed, and we repeat the paragraph (correctly) so that our subscribers may correct the *Diary* one:

Alum Test.—Bakers sometimes inquire as to the test used for demonstrating the presence of alum in bread. The test-solutions are (1) tincture of logwood, 5 grams in 100 c.c. rectified spirit; (2) saturated solution of ammonium carbonate. The method of applying the test is to mix 10 grams of the flour or breadcrumb with 10 c.c. of water, add 1 c.c. each of solution (1) and (2), and mix. Alum changes the colour to lavender or full blue.

At a recent meeting of the Meister, Lucius & Brünig colour-works in Höchst a. M., it was stated that in consequence of the recent alteration in the English patent laws, the company found it necessary to establish their own factory in Great Britain. Building operations have already commenced under the supervision of Meister, Lucius & Brünig in Manchester.

South African News.

(From the "C. & D." Correspondents.)

Note.—"The Chemist and Druggist" is regularly supplied by order to all the members of all the Pharmaceutical Societies in British South Africa, viz.:

South African Pharmaceutical Association.

Pharmaceutical Society of Cape Colony.

Natal Pharmaceutical Society.

Transvaal Pharmaceutical Society.

Rhodesia Pharmaceutical Society.

Northern District Chemists' Association.

Pharmaceutical Society of Orange River Colony.

Cape Colony.

IN CAPE TOWN.—The following drug-trade representatives were in Cape Town when the mail left: Mr. Hull, of Messrs. Parke, Davis & Co., London; Mr. George Taylor, of Messrs. W. J. Bush & Co., Ltd., London.

PRESCRIBING OPIUM.—The Cape Medical Council heard another charge of prescribing opium "for other than *bona-fide* medical purposes" on December 2. The medical man charged was Dr. Samuel P. Impey, of Cape Town, who succeeded in convincing the Council that his motives in prescribing the 3 oz. complained of were genuine, and he was found not guilty.

DR. JULIUS PETERSEN, brother of Mr. D. K. Petersen, the head of the wholesale druggists' firm of that name, is a candidate for the Cape Parliament, Western Circle. The family is a very old and much respected one at the Cape, and the doctor is almost sure to gain a seat in the House. Another brother, Dr. August H. Petersen, is a member of the Cape Upper House.

THE CUSTOMS COMMISSION.—Commenting on the evidence that had been given up to the time of the departure of the Cape mail before the Commission appointed by the Cape Government to inquire into the working of the Customs Union Tariff, our Cape Town correspondent says:

It would appear that the unimportant witnesses are to have their say first, and so far nothing startling has been elicited. Mr. Bruce, the manager in South Africa of the W. & J. Woods Proprietary, Ltd., a company having its headquarters in New Zealand, said he would have to close down unless the next tariff was more favourable than the present one, manufacturing in some other country and shipping the finished product to South Africa. Mr. Bruce did not know what duty was levied on cartons, yet he wanted it advanced. Travellers representing overseas firms pay a licence in the Cape Colony of 25*l.* per year, and the Cape Government railways, on production of the licence, grant a first-class passage at the price of a second-class one. The same facilities apply to any *bona-fide* traveller of a South African firm, but it does not apply to the principals themselves of such firms. In other words, the traveller must be a traveller—not the principal or a director of a concern. It is interesting to note, too, that the printing done by South African firms for the witness was considered by him as most satisfactory. Yet any South African firm that requires high-grade advertising-matter gets it done in Great Britain, or some country where it can be produced; for certainly it cannot be done in South Africa at a reasonable figure, if at all. Mr. Bruce is reported to have said that three pill-factories had been established in Cape Town since the May 1906 tariff came into force. This is scarcely correct. One factory has been fitted up, and that one for the manufacture of sugar-coated pills only. Most of the drug-firms can make pills, but there is not a gelatin-coating plant running in South Africa, nor are the facilities greater for the manufacture of the ordinary "pearl-coated" pills than they were years ago. Messrs. Petersen, Ltd., Cape Town, have been manufacturing pills for more than a decade, which is but one instance, and other wholesale chemists have been making pills for years. The special pill-factory is only intended to run three months in the year, principally to supply Doan's Pink Pills, and Bile Beans with their requirements, and if a gelatin-coating plant was added this concern could make all the pills South Africa needs.

Transvaal.

THE TRANSVAAL MEDICAL COUNCIL, having considered the evidence in the case against Dr. Thornton, of Pretoria (*C. & D.*, December 21, p. 950), came to the conclusion that the definite charges made were not proven.

THE PHARMACY BOARD ELECTION.—We have received the election addresses that have been issued by Mr. Charles Keir and by Mr. R. Q. Leeds, both of Johannesburg. Besides these gentlemen there were five other nominations: Messrs. D. L. Behrmann, Robert Butters, J. H. Dinwoodie, A. S. Smith, and L. Thomas.

TRANSVAAL PHARMACY BOARD.—The monthly meeting of the Board was held at Johannesburg on November 28, under the presidency of Mr. J. H. Dinwoodie, the other members present being Dr. J. Van Niekerk, Messrs. B. Owen Jones, M.L.A., J. R. Jones, R. Butters, and Charles Keir. The report of the examiners on the half-yearly Qualifying examination just concluded was received. Eleven candidates presented themselves for examination, and of these the following five passed: Francis James Baker, Maurice Beiles, John Charles Herbert Lewis, Richard Wharton Thomson, and Minnie Alice MacKenzie. Applications for registration as chemists and druggists were received from H. A. M. Hetherington, chemist and druggist, Transvaal, and S. J. Rikkers, chemist and druggist, Great Britain, and were approved. A draft of a proposed new method of voting for members of the Board, to be submitted for the consideration of the Government, together with other recommendation as to the amendment of the medical and pharmacy ordinance, was approved; and after the usual routine business had been transacted the meeting closed.

PHARMACEUTICAL SOCIETY OF RHODESIA.

The annual meeting of this Society was held at Bulawayo on November 23, for the purpose of electing new officers. The President, Mr. Arthur Cole, of Gwelo, was unable to attend, but the following members were present: Messrs. C. F. Conrath (Vice-President) in the chair, W. J. Bickle (Treasurer), W. D. Copley, A. H. Phelps, W. Burnett, J. H. Needham, and J. H. Nimmo (Hon. Secretary). The officers for the ensuing year were elected as follows: President, Mr. W. J. Bickle (Bulawayo); Vice-President, Mr. P. W. Skerrett (Salisbury); Hon. Secretary, Mr. J. H. Needham (Bulawayo); Hon. Treasurer, Mr. A. H. Phelps (Bulawayo); extra member of the Executive, Mr. C. F. Conrath (Bulawayo). The meeting closed with a vote of thanks to those who had held office during the past year.

THE CUSTOMS TARIFF COMMISSION.

At the sitting of the Government Commission at Cape Town on December 2, Mr. George James Bruce (local manager of Woods' Great Peppermint Cure) gave evidence. He said their industry was severely handicapped by the 25-per-cent. *ad val.* duty on ingredients they used for medicinal preparations. If they sent their locally made medicines to Natal, Orange River Colony, and the Transvaal, they had to pay heavy duties on the alcohol in the tinctures, even if they contained only 4 per cent., and they were allowed only a small rebate. Tinctures were largely composed of Cape wine spirit, and he considered that the duty on all liquid medicines should be fixed at so much per gallon instead of the invoice values. His product was composed to the extent of 73 per cent. of local products. It would probably pay him better to manufacture it in New Zealand and export it to South Africa, and he was seriously considering the closing of his local factory if he could not obtain a more satisfactory arrangement with regard to tariffs. The Colonial spirit was cheaper than the imported, notwithstanding the Excise, and was much better for his purpose. Mr. M. C. Price, who was interested in soap, lime-juice, and bovril, gave evidence on these points. He was in favour of establishment of soap-works, but until federation came he did not think people would be found ready to invest money in such an undertaking. He thought bovril was in some cases a necessity, and could not be regarded as a luxury. There was no prospect of establishing a bovril industry in South Africa, owing to the price of cattle. Its importation had fallen off considerably. He would be surprised if he heard that limes grown in South Africa were being used in the manufacture of lime-juice cordial.

RADIUM AS CANCER-CURE.—The Secretary of the Hospital for Diseases of the Skin, Blackfriars, London, S.E., writing to the "Daily Telegraph" gives some particulars of the treatment of six cases of cancer by radium at the hospital, which are remarkable, and give hopes that radium will fulfil a useful rôle in medicine. The cost of the chemical is the only disadvantage.

French News.

(From the "C. & D." Paris Correspondent.)

TRIBUTE TO LORD KELVIN.—At a meeting of the Academy of Sciences on December 23, a tribute to the memory of Lord Kelvin was paid by M. Chauveau, who, in deploring his death, announced that the distinguished savant had been an associate member since 1877.

NON-METRIC TERMS still used in the French drug trade may be noticed in recent catalogues. Norwegian tar is quoted by the "gonne" of 52 kilos.; Banyuls, Malaga, and Madeira medicinal wines by the Spanish arroba of 16 litres. British Mitcham peppermint oil is priced per English lb., no metric equivalent being given in this case.

LETTER-TELEGRAMS.—A system of letter telegrams is shortly to be established in France. In towns where a night telegraphic service exists messages of not less than fifty words will be accepted, after a certain hour, at the rate of 1 centime per word, telegraphed to the post-office of the town desired, written out at the receiving office and handed to the addressee with the first morning delivery of letters. Any short communication which has missed the evening post will thus be delivered in due time at a cost of 5d.

WASTE PRODUCTS OF ACETYLENE MANUFACTURE.—The lime (more or less pure) which remains in acetylene-generators can, according to M. Lejeune, be used for lime-washing buildings, disinfecting cesspools, coating fruit-trees, etc. One gram of bichromate of potash or soda in 80 grams of water added to a kilo. of residue gives a handsome yellow colour to the lime-wash. Five parts of the residue to one of organic matter (cesspools, etc.) makes a capital manure. For washing stable and cowhouse walls, a weak solution of carbolic acid should be added to the residue.

THE VALUE OF PHARMACIES IN ALSACE-LORRAINE (states the "Monde Pharmaceutique") has been considerably increased by the recent law which abolishes the free exercise of pharmacy which the Reichsland had hitherto enjoyed, and substitutes the German system of limitation. The village of Wasselonne (3,800 inhabitants) has two pharmacies, which have just changed hands. Hoffmann's establishment, which was bought for 35,000f. at the time of the Franco-German war, has been sold for 84,000m. Kopp's pharmacy, which had remained in the same hands for nearly a century, sold for 120,000m.

KNOWLEDGE IS POWER.—M. Astier, Deputy and ex-pharmacist, has been nominated to draw up a report on the reorganisation of French technical education. Interviewed on this subject, he declared his firm conviction that the most highly educated nations will be the final victors in the struggle for the world's markets, instancing Germany, Switzerland, and Belgium. His scheme appears to be evening classes in technical and similar subjects, with obligatory attendance for all lads and girls between fifteen and eighteen who are in situations, their employers to be held responsible for this attendance.

THE LIQUORICE MANUFACTURER'S QUIET LODGINGS.—M. Florent is a liquorice manufacturer at Avignon. He rented a first floor flat in Paris in an eligible central situation, but was annoyed to find there was a drinking-bar on the ground floor. "Oh, it's very quiet," he was assured. "Yes, there are little mandoline and guitar concerts now and then, but it's all over at midnight." In a weak moment he listened to the voice of the charmer, and signed the lease. As a matter of fact, the "bar" was the rendezvous of the gayest society of the gay city, and M. Florent engaged a "huissier" (legal functionary) to draw up a precise account of the nightly concert and lay a sworn statement of facts before the tribunal when pleading for the "resiliation" of his lease. The man of law gravely deposed that at midnight an orchestra performed a selection, and a sound of many voices swelled the chorus. At 12.10 the favourite song "We were all of us twenty, once upon a time" was given, with piano accompaniment. At 1.5 waltzes were played and sung; at 1.10 an explosion of cries of "Ah! Ah!" took place; at 1.15 "chairs shuffled, and screams were heard like those of women pinched or violently tickled" (so saith the legal deposition), followed by the crash of broken glass, and so the sweet amenities of sleep went on until 1.30.

Legal Reports.

Railway Rates.

IS A CORDIAL A DRUG?

At the Keighley County Court on Wednesday, December 18, before Judge Bompas, K.C., an action was brought by the Great Northern Railway Co. against Messrs. G. L. Greenwood & Co., Ltd., manufacturing chemists, Keighley, to recover the sum of 17s. 9d. for the carriage of certain "drugs." Mr. W. Mulholland (King's Cross) appeared for the company and Mr. W. Dewhirst (Keighley) defended.

Mr. Mulholland stated that the claim had reference to consignments by the defendants of casks or cases of what they said were "cordials," but what the company classified as "drugs," and charged for at a higher rate than for cordials. The defendants had paid the rate for cordials, and the action was to recover the differences. A Great Northern goods clerk was called to prove that the goods which were formerly accepted and charged for as cordials had, since examination by an inspector, been ordered to be treated as drugs. The point was raised during the early stages by Mr. Dewhirst that all drugs are not necessarily put into Class 3 of the railway schedule, but that when, e.g. castor oil is carried, a different and lower rate is applied to it.—Mr. F. Greenwood, the local G.N. goods agent, was examined, and, in reply to his Honour, admitted that if a preparation contain drugs but comes under the description of a cordial it would be carried at the lower rate.

Mr. Mulholland pointed out that the other side had admitted that this was a drug.

His Honour reminded Counsel that so far the word "drug" had been used in two entirely different senses: (1) as a general term for all things of a particular class—in which sense it was admitted that this was a "drug"; and (2) by the witnesses as a term for those articles coming within the larger description which, not being elsewhere mentioned, are chargeable as "drugs."

Mr. Mulholland remarked that in the classification there was only one reference to drugs as "Class 3." Drugs in casks, iron drums, bales, or boxes must be charged under Class 3, and the contention was that the article in question came under this head. The only other reference to drugs was "drugs in boxes, hampers, or crates."

Later on in the argument his Honour asked: Supposing this particular bottle came both under the term "drug" and under some other term—he had understood from the witness now before him that it would have to be charged under which ever classification was the lower.

Witness: I understand the higher.

Mr. Wm. Morris Gathorne Young, F.I.C., analyst to the company, was next called, and said he had helped to compose the classification. He had seen the drug under consideration and knew what its composition was. He was quite satisfied that the preparation is a drug, and the constituents marked on the label are drugs. It should be charged at the drug-rate. A cordial containing a drug and being designed for use as a drug, with a definite dose indicated, becomes a drug.

His Honour: And ceases to be a cordial? But what does the Act say? Does not the Act say there is some maximum for cordials?

Mr. Mulholland: Yes.

His Honour: Supposing that besides being a drug it is a cordial, how can you charge it more than the Act of Parliament allows you to charge for cordials?

Witness explained with reference to castor oil, if there is a mixed consignment of oil for ordinary and for medicinal purposes the whole consignment would be chargeable as drugs. Witness was quite satisfied the preparation under consideration was a drug.

His Honour: But many cordials are a drug.

Mr. Mulholland: If he admits that it is a drug, we are entitled to charge it as a drug.

His Honour: Not if it is under another heading where you are not entitled to charge it. (To witness): Why is it not a cordial, or what would make it a cordial?

Witness: It is not a cordial, as it contains no alcohol—an essential feature of a cordial properly so called—i.e.

an aromatised and sweetened alcoholic liquid designed for use as a beverage. This article was distinctly a medicine designed to be used in medicinal doses for the amelioration of the chest and lungs. The doses were stated outside the box—half a dram for children and one dessertspoonful for an adult. Many drugs are made up as this was and are sold as proprietary cough mixture or linctus.

Mr. Mulholland: Mixtures similar to Owbridge's?

Witness: Yes; similar to that.

Mr. Mulholland: Which is always sent at drug-rates?

Witness: It is always sent at drug-rates.

His Worship having further questioned witness on his definition, Mr. Young admitted that there are exceptions—such as Rose's lime-juice cordial—but in the present case the article was a medicine containing, as stated on the label, linseed, honey, chlorodyne, aniseed, and ipecacuanha.

The Judge asked whether honey is carried as a drug; to which Mr. Mulholland said honey is a drug, and witness remarked that this is not so in the general classification. He was cross-examined by Mr. Dewhirst, but no new facts were elicited.

Mr. Dewhirst, in defence, contended that the article was a cordial, and that it ought to have been carried at the cordial-rate. The preparation was not such a thing as his friend said, or else they would have to pay duty and place a stamp on it. It was not Owbridge's Lung Tonic, nor any of those cough-medicines on which there would have been liability for duty. There was no duty on the article at all. It was not a medicine.

Mr. Mulholland said the duty did not depend upon that. If it was desired to discuss the question as to what is dutiable, he was prepared to go into that.

The defendant then gave evidence. He stated that the article was prepared by him, and up to quite recently it had always been consigned as cordials in casks and classified in Class 2. It had been sold and invoiced as a cordial. Cross-examined, defendant said the label correctly described the composition of the cordial. He was questioned at much length in regard to dosage, distinguishing medicines from other articles, and as to this article being held out as a medicine. Witness declared that it was not claimed as a medicine, nor to have curative value. It is sold as a chest and lung cordial at 6d. a bottle.

His Honour: Don't you think that it will do good to the chest and the lungs?

Defendant: Yes; we claim that it is a stimulant. Unfortunately we have to walk on some very thin lines. If we claim any curative value we are saddled with the tax of 1½d. a bottle.

Mr. Mulholland here referred to the lists of non-dutiable titles, and put it to his Honour that the article was what is popularly known as a "proprietary" medicine. Witness had to answer questions from both of them, and admitted that the cordial "is a stimulant of the chest and lungs to resist the cold and fog of these misty mornings." He defined a cordial as everything that stimulates the action of the heart. But they are not all things to drink; you cannot drink a "cordial greeting," or a "cordial hand-shake." But the meaning is the same—the derivation is from the Latin *cor*, meaning the heart. A cordial means anything that stimulates the action of the heart.

Mr. Mulholland: I suppose, then, if you see a young lady, she is a cordial? (Laughter.)—Well, it used to be. (Laughter.)

Defendant: His Honour intimated that he should like to have some time to consider the matter, and therefore adjourned the case.

Sale of Food and Drugs Acts.

ANALYSTS' CERTIFICATES.

At the hearing of a case under the Acts on December 20 against a Blackburn farmer, for selling milk not of the "nature, substance, and quality demanded," it transpired that three certificates had been received from different analytical authorities of repute relating to the same samples, but all three varied in the amount percentage given.

TARTARIC ACID.

At Stafford Police Court on December 19, Watkins & Auston, wholesale grocers, were summoned for selling

tartaric acid adulterated with lead and arsenic.—Mr. E. W. T. Jones, county analyst, stated that the acid contained arsenic equal to one-seventieth of a grain per lb., and anything over one-hundredth part of a grain was considered to be injurious. The lead-content was one-third of a grain per lb., or two and a half times as much as the Local Government Board instructed them to condemn.—Mr. Aston said the dealers did not accept any responsibility, owing to the length of time since the acid was purchased. The case was dismissed on payment of costs.

MACE.

At Sunderland County Petty Sessions on December 21, William Burns, grocer, was fined 5*l.* and costs for selling ground mace which contained 30 per cent. of wild or Bombay mace.—A similar penalty was imposed on John Habberley, the amount of Bombay mace present being 70 per cent.

CITY CASES.

DURING last week three charges were heard against City chemists for alleged inaccuracy in dispensing. The cases are probably intended to support the allegations made in a recent report by the City analyst, Dr. Frank Teed. The first of the series of summonses was heard at the Mansion House Police Court on December 19 (a report of which arrived too late for insertion in last week's issue), when Thomas Henry Percival, chemist and druggist, 3 Broadway, Ludgate Hill, E.C., was charged "with having sold a compound drug which was not composed of the ingredients in accordance with the demand of the purchaser, being deficient in cinchona alkaloids to the extent of 32 per cent. of the minimum amount that should have been present." Mr. T. C. Vickery (the assistant City solicitor) prosecuted, and the defendant did not appear. Mr. Vickery explained to the Magistrate (Alderman Howse) that a test-prescription written by Dr. Collingridge, the medical officer of health for the City, was taken to defendant's shop to be made up, and, on being analysed, it was found to be deficient as stated. The matter was serious, he said, because medical men relied on the accuracy of their prescriptions. He did not suggest that defendant was making an unfair profit, or that there was any intention to defraud, but there was evidence of carelessness, and the object of the proceedings was to make chemists more careful. In reply to the Alderman, Dr. Collingridge said it was not suggested that other ingredients had been substituted. The cinchona ordered in the prescription was supplied, but it was deficient in alkaloidal strength. A fine of 5*l.* and 17*s.* 6*d.* costs was imposed, or one month's imprisonment in default.

The second case was heard at the Guildhall Police Court on December 20, before Alderman Sir Joseph Savory, when William Smart, chemist and druggist, 27 Aldgate, E.C., was charged with a similar offence, the deficiency in cinchona alkaloids being, according to Dr. Teed's analysis, 18 per cent. The prescription, which was left to be dispensed by Mr. W. H. May, one of the inspectors under the Sale of Food and Drugs Acts for the City, was as follows:

Pot. iodid.	...	...	...	gr. 120
Tinct. cinch.	...	...	...	5j.
Aq. ad	...	...	...	5viii.

M. Ft. mist.

Defendant did not dispute the analysis, and Mr. Vickery, who again prosecuted, although not suggesting fraud, alleged very great carelessness. Defendant had already been twice cautioned—once in respect to chloroform liniment, and again with reference to iron pills, in both cases deficiency in the ingredients having been found. Defendant read a statement of defence to the effect that he had bought his drugs from manufacturing chemists of the highest standing, such as Messrs. Baiss Bros. & Stevenson, Ltd., and Messrs. Hearon, Squire & Francis, Ltd., and he was convinced that his preparations were of the highest standard. He had himself made up the prescription in question, and he was certain not only that he weighed the 2 dr. of potassium iodide, but also that he had measured accurately the tincture of bark. There had been

no carelessness, and it was humiliating, he said, that after carrying on business in the City for forty-seven years he should have been called upon to answer for such a trivial accident, which was of no medical importance. The Alderman said the City Magistrates were inclined to take a serious view of such cases, and defendant was fined 5*l.*, and 17*s.* 6*d.* costs.

At the same Court, on the same day, William Alfred Elston, chemist and druggist (trading as Boor & Co.) was charged with a similar offence at his branch shop, 3 Addle Street, E.C. The prescription was the same, and Dr. Teed's analysis showed the same deficiency—viz., 18 per cent. of cinchona alkaloids. Mr. C. H. Kirby (of Neve, Beck & Kirby) appeared for Mr. Elston, on the instructions of the Chemists' Defence Association. When the case was called, Mr. Vickery said defendant had put in a statement which the prosecution were inclined to accept, and if the Alderman would permit he was prepared to withdraw the summons. Mr. Kirby had shown him an analysis of the mixture made by an independent analyst, which showed a deficiency of 6 per cent. of alkaloids only, as against the 18 per cent. of Dr. Teed's analysis. There might be some doubt as to the absolute accuracy of the amount of deficiency, and in any case the amount was so small that the prosecution were willing to give defendant the benefit of the doubt. The Alderman accordingly allowed the summons to be withdrawn.

Bankruptcies and Failures.

Re PERCY WILLIAM PURDIE, 1 Queen's Road, Wimbledon, Surrey, Chemist and Druggist.—The first meeting of creditors was held last week at 132 York Road, Westminster Bridge, S.E., under the presidency of Mr. H. L. Howell (the Official Receiver). The Chairman said no statement of affairs had been lodged, the debtor having gone away. He was unable to say where he had gone, although it was reported that he had gone to Australia. It was also alleged that the debtor had, by some means, managed to raise money from the business, and this he had taken away with him. That was, of course, a punishable offence. Since the receiving-order, he had appointed a manager to look after the business, which was, apparently, a very fair one. It would be to the advantage of all concerned to dispose of the business as a going concern, and this he was attempting to do. A creditor stated that the debtor, before going to Wimbledon, was in business as a chemist at Hammersmith. There he got into difficulties, and consulted his creditors, offering them 10*s.* in the pound. The matter was left in the hands of the Official Receiver.

Re GEORGE JOHN WALKER, 7 Guildhall Street, Lincoln, Chemist and Druggist.—The first meeting of creditors was held last week at 31 Silver Street, Lincoln, and the debtor later on the same day attended the Sessions House, Lincoln, for his public examination before Mr. Registrar Stephen. In answer to the Official Receiver, the debtor stated that he commenced business about fourteen years ago with a borrowed capital of 500*l.*, of which he had since repaid about 50*l.* He had borrowed from moneylenders, and he admitted that he had lost a little money by betting. He attributed his failure to bad trade, keen competition, and excessive interest on borrowed money. According to the statement of account filed, the gross liabilities amount to 1,443*l.* 0*s.* 11*d.*, of which 1,391*l.* 19*s.* 11*d.* is expected to rank. The assets consist of stock in trade, machinery, trade fixtures, fittings, utensils, etc., 1,000*l.*; furniture, 50*l.*; and book-debts estimated to produce 95*l.* 15*s.* 2*d.*, totalling 1,143*l.* 15*s.* 2*d.*, less 39*l.* 1*s.* for preference claims, leaving net assets 1,104*l.* 14*s.* 2*d.* Bad and doubtful book-debts amount to 7*l.* 4*s.* 6*d.* The hearing was adjourned. The creditors include: Allen & Hanburys, Ltd., London (15*l.*); Barron, Harveys & Co., London (18*l.*); Battle, Son & Maltby, Lincoln (75*l.*); Davy Hill & Hodgkinsons, Ltd., London (22*l.*); J. Durant, Ltd., Bedfordshire (10*l.*); Evans Sons Lescher & Webb, Ltd., Liverpool (21*l.*); D. W. Gibbs & Co., Ltd., Wapping, E. (10*l.*); T. Gilbert, Maidstone (27*l.*); T. Hall, Lincoln (13*l.*); Hearon, Squire & Francis, Ltd., London (23*l.*); Hirst, Brooke & Hirst, Ltd., Leeds (22*l.*); Hills & Underwood, London (10*l.*); Keene Co., London (10*l.*); Lofthouse & Saltmer, Hull (16*l.*); S. Maw, Son & Sons, London (55*l.*); — Passmore, London (56*l.*); — Settle, Horn-castle (106*l.*); W. R. Todd & Son, Hull (16*l.*); "bankers" (64*l.*). Preferential creditors (rent): Warwicks & Richardson, Newark (10*l.*); Mrs. Kent, Lincoln (30*l.*).

Gazette.

Partnerships Dissolved.

REDDING, J. H. D., and MORGAN, H. B. T., general medical practitioners, Telford Road, North Kensington, N., under the style of Doctors Redding & Morgan.

SNAREY, H. B., and SANDYS, A. P., dental mechanics, Blackburn, Lancashire, under the style of Snarey & Co.

The Bankruptcy Acts, 1883 and 1890.

ADJUDICATIONS.

CHARLES, HENRY EDWARD AUDLEY, Brighton and Hove, Sussex, veterinary surgeon.

WHEELER, LOUIS, Warrington Crescent, Maida Vale, W., doctor of medicine.

ORDER MADE ON APPLICATION FOR DISCHARGE.

MUMFORD, RONALD RAND (latterly carrying on business as R. R. Mumford & Co.), Teather Street, Camberwell, S.E., late Bridge Row, E.C., chemical-apparatus manufacturer—discharge suspended for two years ending November 22, 1909.

New Companies and Company News.

VERNIA, LTD.—Capital 300*l.*, in 1*s.* shares. Objects: To adopt an agreement with C. Joly, and to carry on the business of chemical-manufacturers, drysalts, logwood cutters and dealers, manufacturing chemists, extractors, manufacturers of and dealers in dyes, etc.

IMPERIAL DRUG-STORES, LTD.—Capital 600*l.*, in 1*l.* shares. Objects: To acquire the business of wholesale and retail chemists carried on at 171 Fulham Road, S.W., as the "Imperial Drug-stores," and to carry on the business of chemists, druggists, photographers, opticians, dentists, etc. The first subscribers are: E. W. Gay, Osborne House, Zetland Road, Bristol, chemist; H. James, 45 Sydney Street, Fulham, S.W., chemist; G. Clements, Parkstone, Essex, accountant; G. Jones, 171 Fulham Road, S.W., chemist's assistant; G. Cullwick, 171 Fulham Road, S.W., chemist and druggist; W. Simmons, 6 Duke Street, Adelphi, W.C., clerk; E. Hall, 1 Wallgrave Terrace, S.W., painter; and C. D. Thornton, 26 Elsham Road, Kensington, W., surveyor. G. Cullwick is the first managing director. Registered office, 171 Fulham Road, S.W.

CHAMBERS' "CASTRIQUE," LTD.—Capital 1,500*l.*, in 1*l.* shares. Objects: To acquire the business carried on by J. F. Chambers at Arnold, Notts, under his own name or under the style of Chambers' "Castrique," with recipes for manufacturing the medicinal preparation known as "Castrique," but excluding all rights of selling or dealing with the same in North and South America, and to carry on the business of medicine and drug manufacturers and dealers, etc. The first subscribers are: J. F. Chambers, The Elms, Redhill, Nottingham, chemist; O. C. Ford, Buckingham Road, Sherwood, Notts, mineral-water manufacturer; Mrs. K. H. Chambers, The Elms, Redhill, Nottingham; F. W. Ford, Wollaton Street, Nottingham, company director; S. Thumbs, Hoveringham, Notts, contractor; A. Gray, 25 Holborn Avenue, Sneinton, Nottingham, clerk; and J. Chester, 490 Meadow Lane, Nottingham, secretary. No initial public issue. The first directors are J. F. Chambers and O. C. Ford. Registered office, The Laboratory, Arnold, Notts.

HARRY W. COX & CO., LTD.—Capital 5,000*l.*, in 1*l.* shares (4,000 7-per-cent. cumulative preferred ordinary and 1,000 deferred ordinary). Objects: To acquire the business of electricians, electrical and mechanical engineers, contractors, model-makers, manufacturers of and dealers in electrical, medical, and scientific fittings, implements, apparatus, and appliances, etc., carried on by Harry W. Cox, Ltd., at 1a Rosebery Avenue, E.C., to adopt an agreement with H. W. C. Cox, Ltd., and to carry on the said business and that of pneumatic and other bell suppliers and hangers, cable and wire manufacturers, etc. No initial public issue. The first directors are H. W. C. Cox (managing director), H. G. Critchley, M.A., M.D., and H. E. A. C. Donnithorne. If the said H. E. A. C. Donnithorne resign office while holding 700 shares he may nominate V. H. Donnithorne as his successor if the said V. H. Donnithorne be then technical manager. Qualification, 700 shares. Remuneration, one guinea each per board meeting. Registered office, 47 Gray's Inn Road, W.C.

PARKE'S DRUG-STORES, LTD., announce the payment on December 31 of the final dividend on ordinary shares for the half-year ending September 30 at the rate of 6 per cent. per

annum, less income-tax. The transfer-books will be closed from December 24 to December 31, both days inclusive.

IDRIS & CO., LTD.—In our report of the meeting of shareholders last week (p. 928), Mr. E. K. Bishop directs attention to an inaccuracy. He explained to the meeting that the amount of 74,000*l.* in the balance-sheet "was capital employed in branch and subsidiary businesses, with the exception of about 1,500*l.*, which represented sundry investments."

Trade Notes.

"SAUERIN" is the correct name of Messrs. Allen & Hanburys' tablets of the culture of lactic acid bacilli, not "Sauen," as inadvertently printed last week.

THE telegraphic address of Messrs. Chas. Zimmermann & Co., 9 and 10 St. Mary-at-Hill, London, E.C., as distinct from that of Messrs. Chas. Zimmermann & Co. (Photographic), Ltd., is "Acidolan."

MESSRS. EVANS, GADD & CO., LTD., Exeter, are preparing a 150-page book of extracts from the British Pharmaceutical Codex, with the idea of making a small book which chemists can present to medical men. From an inspection of a set of proofs of the volume we find that the particulars given are such as medical men desire to know for prescribing purposes. The book will be ready before the New Year.

MESSRS. OPPENHEIMER, SON & CO., LTD., 179 Queen Victoria Street, London, E.C., inform us that they have been investigating a method by a well-known London physiologist for the isolation of the principles of brain substance, the object of which is to prove that protagon is not the uniform chemical substance it has hitherto been presumed to be. They have isolated from protagon substances containing a very large percentage of phosphorus, and others that contain a large percentage of nitrogen. They understand that from the experiments which have been conducted with these salts some important therapeutical results will be obtainable in the near future.

Almanacs and Diaries.

THE International Bottle Co., 19 St. Dunstan's Hill, London, E.C., is sending out a calendar for 1908, in which the top is a sheet of red celluloid, under which is a convenient little calendar for the coming year, with a pad of blotting-paper.

SPRATT'S Patent, Ltd., 24 and 25 Fenchurch Street, London, E.C., issue a wall-calendar, the monthly leaves of which are illustrated with typical specimens of dogs or birds. On the back of the leaf there is a full description of the subject depicted on the calendar side which is helpful to expert and novice alike. The almanac can be had if asked for early by postcard.

HIRST'S Household Almanac, edited and published by Messrs. Hirst, Asquith & Co., Rustlings Road Pharmacy, Sheffield, contains a dictionary of medical treatment. Ordinary complaints are dealt with in simple language, and appropriate remedies suggested. With the almanac is a medical receipt-book telling how to use herbal remedies with advantage.

THE Household Almanac, published by Mr. J. Spencer Palmer, Coronation House, Thornbury, Glos., is distinguished, as in previous years, by the personal element given in the "Notes and Jottings" and by the photographs of Mr. Palmer and his shop. Mr. Palmer asks us to state that he is always pleased to exchange copies with other chemists; otherwise he is compelled to make a charge of 3*d.* post free.

"THE Scientists' Reference Book and Diary for 1908" is published by Messrs. James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, at 1*s.* (cloth) and 2*s.* (leather). It deals with many scientific subjects, the following being a few: Astronomy (large planets of the solar system), the earth (its constituents and principal features), terms used in electricity, dynamics, heat, sound, and light, standard wire gauge, chemical and physical constants, laws and definitions, alloys, analytical factors, logarithms, and optical notes. Each page of the diary serves for a week, and as the book is printed on thin paper (128 pages), it is thin enough to carry in the breast pocket.

OF COURSE.—"We are up to date in our methods," writes a new firm (74/13), "and so subscribe to the most up-to-date trade-paper."

Personalities.

ALDERMAN RALPH SHORROCK, ex-Mayor of Darwen, has retired from the presidency of the local Tradesmen's Association, which he has held for fifteen years.

THE Dover Town Council have decided to confer the honorary freedom of the borough upon Mr. W. J. Barnes, chemist and druggist. Mr. Barnes was Mayor of Dover in 1901-2.

LIEUT.-COLONEL CLIFFORD PROBYN, J.P. (Hooper, Struve & Co.) has been appointed by the London County Council as one of their representatives on the new Territorial Association for the county of London. The Lieut.-Colonel has also been gazetted as a Deputy-Lieutenant of the County of London.

Mr. G. W. MARRIS, pharmaceutical chemist (head of the analytical laboratory of Evans Sons Lescher & Webb, Ltd., Liverpool), whose marriage we announced last week, was presented by his colleagues in Hanover Street, prior to the wedding, with a handsome clock, suitably inscribed, and a silver preserve dish and spoon for his bride. The gifts were handed to Mr. Marris, on behalf of the subscribers, by Mr. J. T. Hornblower, who conveyed the good wishes of the staff to the recipient.

Births.

CARDNO.—At Finsbury, 427 Clifton Road, Woodside, Aberdeen, on December 18, the wife of Robert C. Cardno, chemist, of a daughter.

GAULDIE.—At Rustenburg, Transvaal, on November 25, the wife of N. L. Gauldie, chemist and druggist, of a daughter.

JONES.—At 88 Norwood Road, London, S.E., on December 18, the wife of R. Haselwood Jones, pharmaceutical chemist, of a son.

Marriage.

MARSDEN—HANNAH.—At St. Thomas' Church, Ashton-in-Makerfield, on December 18, by the Rev. W. Williams, Rector of Ashton, assisted by the Rev. F. Kennen, of Derby, Prosper Henry Marsden, Lecturer in Pharmacy in the University of Liverpool, to Jessie, third daughter of Dr. Hannah, M.O.H., Ashton-in-Makerfield.

Deaths.

ANDERSON.—At Ventnor, Isle of Wight, on December 18, Mr. David Anderson, chemist and druggist, formerly with the late Mr. John McMillan, Great Western Road, Glasgow.

DELAMARE.—At Pathhead, Kirkcaldy, suddenly, on December 21, Mr. Edward Thomas Delamare, retired chemist, aged sixty.

GALLIER.—At Alvescot, Bedford Road, Horsham, on December 22, Mr. Robert Gallier, chemist and druggist, aged fifty-five. Mr. Gallier was an assistant with Messrs. Savory & Moore, of London, before going to Egypt as resident chemist to H.H. Prince Tewfik Pasha, then Khedive. On the deposition of the Khedive Mr. Gallier returned to England, and took a business at No. 1 Carfax, Middle Street, Horsham, adjoining the Town Hall, where for nearly twenty years he traded as a chemist. Mr. Gallier subsequently retired from the drug business to undertake hop-growing at Bardown, Ticehurst. He was held in much esteem in the town, and his death will cause widespread sympathy. The funeral took place on Friday at Horsham.

HALSTED.—At Burnley, on December 14, Mr. Halsted Halsted, chemist and druggist, formerly of Shepton Mallet, aged seventy-eight.

LASSAR.—The death was announced in Berlin on December 23 of Dr. Lassar, the well-known professor of dermatology, and the inventor of Lassar's paste.

LIDGETT.—At Rotherham, on December 12, Mr. Walter Fletcher Lidgett, chemist and druggist, aged sixty-three.

PERFECT.—At Royd Nook, Bingley, on December 17, Mr. Richard Perfect, chemist and druggist, aged seventy-two. Mr. Perfect took over the business of the late Mr. Dunn, at Bingley, between thirty and forty years ago, and this he carried on until his retirement five or six years ago. He had served on the old Board of Commissioners, and as warden, sidesman, and Sunday-school superintendent at the Parish Church.

STEVENS.—At Seabrook, Hythe, on December 19, Mr. Edmund Matthew Stevens, chemist and druggist. Mr. Stevens carried on business for several years in London Road, Dover.

TASKER.—At 21 Upper Street, Islington, on December 13, Mr. William Tasker, pharmaceutical chemist, aged seventy-three.

Chemical Society.

A MEETING was held at Burlington House, W., on Thursday, December 19, Sir William Ramsay, K.C.B., F.R.S. (President), in the chair. Sir William opened the proceedings by referring to the losses which the Society had sustained in the deaths of two of its Fellows—Mr. Hall, of New York, and Professor Harrington, of McGill University, Montreal. He went on to say that the Chemical Society, in common with scientific societies everywhere, had to deplore the loss of Lord Kelvin, who was probably the greatest physicist and mathematician this country had produced since Newton—if, indeed, his contributions to those sciences were not actually greater and more important than those made by Newton. The Council of the Society had at a meeting in the afternoon selected a number of Fellows to represent the Society at the public funeral, and the Secretaries had been instructed to send a letter of condolence to Lady Kelvin. The delegates were as follows: Professor H. E. Armstrong, Sir W. Crookes, Dr. W. R. Hodgkinson, Professor Meldola, Dr. R. Messel, Sir A. Pedler, Professor J. M. Thomson, Professor W. A. Tilden, and Dr. T. E. Thorpe.

There was a very short list of papers, and of these only three were marked to be read. The first dealt with the attempted synthesis of two dinaphthacridines by the condensation of methylene dichloride with substituted naphthylamines, and was read by Mr. P. C. Austin on behalf of himself and Dr. Senier. Mr. C. E. Groves followed with a paper describing a number of new cobaltamine salts, which were for the most part beautifully crystalline and brilliantly coloured, but to which at present he does not venture to assign constitutions. The third and last paper was contributed by Dr. Spencer, and described a new and remarkable method of carrying out what is known as the "Grignard reaction." So far this synthetic method has always been carried out in ethereal solution, and the most popular explanation of its *modus operandi* involves the assumption of the formation of an additive ethereal compound as an intermediate product. Dr. Spencer's results indicate that this is unnecessary, since he finds that if solid α -bromonaphthalene is simply mixed with dry magnesium powder and left alone for a time the mixture becomes hot, forms a brown magnesium derivative of the ordinary type, and this, on treatment with water, gives an almost quantitative yield of naphthalene. With other bromides the reaction does not proceed quite so readily, and the mixture has to be heated; but once started it proceeds rapidly, and good yields of the product are generally obtained. The method does not appear to be generally applicable; thus with aliphatic compounds bromosuccinic acid alone has been found to react well among those tried so far.

It may be mentioned that the current number of the "Proceedings of the Chemical Society" contains an announcement that Professor Wislicenus, of Tübingen, is arranging to establish a memorial in that town to Lothar Meyer, who will be remembered mainly by his classical work on the periodic relations of the elements. We understand that no local arrangements have been made for the receipt of subscriptions in this country, and that these should be sent to Professor Wislicenus direct.

The Doctor's Mistake.

A Christmas Story.

A KEEN north-east wind, with a few snowflakes, blew fiercely into the face of Harold Winkler, M.D., M.R.C.S., as he steered his car homewards to his dinner and his cosy home after a long and dreary round of afternoon visits to his patients. The bleak moorland road he was traversing was chilly and windswept in July, but upon this Christmas Eve the icy blast, straight from the North Sea but two miles distant, seemed to cut through him in spite of his fur overcoat. His patients were scattered, and lived in lonely farms in the valleys, on the moors, or in the fishing villages perched precariously on the cliffs that lined that rock-bound coast. Mostly farmers, small tradesmen, or fishermen, with a sprinkling of local squires and landowners, he was in the habit of visiting them twice weekly, his round extending for a distance of about ten miles each way from his home at Whiteburn-on-Sea. Slowly but surely the young medico had gained the confidence and esteem of all by his calm, sympathetic manner and skilful treatment. His brethren in the profession retired, and he found himself at last in possession of the nucleus of a growing and large practice. As yet he was unmarried, but now that his bank balance was rising and prospects were rosy, he had decided to take to his hearth and home the one who had been patiently waiting for him in a far-off Devonshire rectory, and his marriage was to be celebrated during the coming year.

And on this Christmas Eve as he neared his home, life looked fair and the future bright. His day's work had been tiring and his patients somewhat exacting. His last call had been made at Squire Foster's, at Bigthorpe, an inland village on the moors some five miles distant, whose daughter Ruth had been prostrated by a sudden and severe attack of sickness. It was his custom to send on his medicine, which he dispensed himself, by post, train, or carrier, but in this case it was so imperative that his patient should have it as early as possible that he had specified that a groom should ride over to Whiteburn later in the evening, when he would find it in readiness.

At home, and dinner over, the doctor produced a well-coloured meerschaum, and, sitting in his favourite armchair by the fire, gradually dropped into a peaceful and dreamless sleep. He was awakened by the entrance of his house-keeper with the news that the messenger from Bigthorpe had arrived and had found travelling very difficult.

Telling her to give the groom something warm, Dr. Winkler left his dining-room and passed into his small surgery and dispensary combined. Entering the prescription in his book, he took a 6-oz. bottle from one of the drawers, and proceeded to fill it up. Among other ingredients it was to contain three minim doses of dilute hydrocyanic acid, and the vehicle was chloroform-water. Weighing out the solids, he dissolved them in the bottle about half-filled with this liquid, and then proceeded to measure out the acid carefully. This was kept in an ordinary stock bottle, which contained about 5 oz. of the deadly fluid. Instead of placing this bottle back upon its shelf as he ought to have done, he allowed it to remain on the counter while he finished off the mixture, filling up with chloroform-water from the bottle standing with that containing the prussic acid.

He quickly finished his work, and, giving the bottle to the horseman with a cheery good-night and a parting caution not to lose his way, he went back to the cosy dining-room to finish the pipe he had allowed to go out while he slept. He was very tired, he had had several spells of night work lately, and he again dropped into a dose, and it was probably an hour later when he again entered his dispensary to make up his books for the day. Crossing the room, his eye fell upon the bottles still standing where he had left them on his bench. *The acid-bottle was almost empty.* Instantly the awful mistake he had made revealed itself in all its horror. Mechanically, sleepily if you like, he had filled up the 6-oz. bottle with the poison instead of the chloroform-water, and very likely as he stood there Ruth Foster had already, by her painful and sudden death, paid

the penalty of his awful carelessness. He looked at his watch.

He could not wire, it was too late for the local post-office to send a message. His only hope was that the groom, who had ridden off an hour or so ago, had been delayed by the snow to such an extent that he could be overtaken by the motor-car, and in a very few minutes the doctor had gathered together antidotes, stomach-pump, and a few necessities, had got his car out, and was driving it through the snow at its utmost speed.

His thoughts were not idle. He cursed his folly and his carelessness. And yet how often had he not in a similar automatic manner dispensed his medicines? He thought of the young life, perhaps ere now cut down with fiendish rapidity, of the horrors of the final struggle, of the distress and anguish of parents and friends.

Semi-articulate prayers rose to his lips as he strained forward, trying to pierce with his eyes the soft wall of shifting snowflakes and catch a gleam of the lights of Bigthorpe away on the moor, towards which he was rapidly approaching. And thoughts of his own ruined career—socially, professionally, and morally—chased each other through his brain, and kept time to the throbbing, pulsating rhythm of his engine. Suddenly his car, which had been running well, without warning stopped, and the doctor was almost thrown forward over the bonnet.

What had happened? Quickly, with workmanlike skill and knowledge, he made an examination of his engine, and, after a few precious minutes, discovered that his carburettor was frozen, and it would be a considerable time before he could raise the temperature sufficiently to restart his engine. There was nothing for it but to proceed the rest of the way on foot, a distance of about a mile and a half. Seizing his bag, he left his car, and, stumbling and running with panting breath and labouring heart, he went forward into the night. He had never realised the force of the wind till he left the shelter of his car, and now he was at times brought to a standstill by its fierce and icy blast. It was impossible to see whether he was in the road or not, and he was only aware of its existence by his falls into the dry ditch on either side, now partly filled with snow. No trace of the groom was to be seen, his tracks having been long since obliterated, and Dr. Winkler feared the worst as he still manfully ploughed his way onward to the Squire's. The snow had now ceased, and a few pale stars were to be seen overhead. The feelings of the unfortunate medical man can be imagined as he came in sight of the lighted windows of the house. Warm, cosy, and peaceful they looked. What was behind their apparent calm and comfort? From somewhere in the lower part of the house came the sound of children's voices as with laughter and glee they revelled in the Christmas festivities already commenced. With beating heart and tottering steps he entered the porch and rang the bell. When the maid came she stared in amazement at the haggard face of Dr. Winkler as he tried to frame some words of question and explanation. The doctor almost flew to the bedroom. With noiseless steps he approached the bed, noticing with a shudder that the fatal bottle was standing on a small table by the bedside, and that a dose had already been taken. But instead of the cold and lifeless form he expected to see was the living breathing Ruth Foster, pale it is true, but peacefully sleeping, and to all appearance the better for what she had taken.

It is not often that two mistakes neutralise each other, but it was so in this case. The medicine contained no hydrocyanic acid. The bottle from which the doctor poured, as he thought, the poisonous dose, contained dilute hydrochloric acid. The errand-boy in dusting the shelves had unconsciously changed the two bottles, and, both containing a colourless liquid, and both bearing apparently the same label, the mistake was not noticed. How Dr. Winkler explained his presence by the bedside and his unconventional behaviour, is not germane to this story.

What does concern all who read is that the prussic acid was ever afterwards kept in a special poison-bottle in a locked cupboard; and also that he made it a practice to take each bottle from the shelf as he wanted it, and to replace it in the same position as soon as he had finished with it.

E. C. C. (48/13.)

Observations and Reflections.

By XRAYSER.

The Fortieth "C. & D. Diary"

is full of nourishment for the hungry modern pharmacist, and I notice that several of the regular and essential features are, in this edition, presented in a new and appetising form. This is well, for it leads us to study the information which we probably should not do if it reappeared in its old dress. Among the new articles contained in the *Diary* the one which particularly attracts me on a first inspection is the rather reproachful one on the cultivation and collection of

Medicinal Plants,

which suggests without actually alleging the failure of our generation of chemists and druggists to maintain the traditions of our ancestry. In Mr. Barrett's "History of the Society of Apothecaries" an entry from the old books of the Corporation is quoted showing that June 21, 1627, was "appointed for simpling," when the members of the Society were invited or commanded to meet "at Graies Inne in Holborne at five in the morning." I suppose they had to get back to their shops by eight o'clock at latest, so it is doubtful if they got as far as merry Islington, especially if they lingered long by the hedgerows of pleasant Pentonville. The records of the apothecaries do not justify too much confidence in their scientific enthusiasm, but the date quoted above was within the first decade of their separate existence as a guild, when they were eager to prove to the authorities how superior they were to their quondam allies, the grocers. It appears, however, from information collected in an attractive account of "London's Botanic Gardens," by Mr. P. E. F. Perrédès, B.Sc. (published last year by the Wellcome Chemical Research Laboratories), that students' herberisings were continued by the Society until 1834. Annual General Herberisings and an exhibition of plants, followed by a dinner, were maintained by the Society until 1853, when the annual exhibition disappeared with the abolition of the office of Professor of Botany, "although the dinner was continued." These references show that by their herberisings, and especially by their acquirement of the Chelsea Physic Garden in 1673, for some two centuries the Apothecaries recognised that the cultivation and collection of herbal simples was an integral part of their occupation. We pay a similar compliment to that traditional part of our business

By including Botany

among the subjects of our qualifying pharmaceutical examination; but that over, what most of us do with such knowledge of plants as we have acquired is to forget it. There is something that evidently wants looking into in this condition. Either we ought to have the courage to rule the subject clean out of our professional curriculum or else consider seriously in what way we can best utilise it. The *Diary* article says truly:

Chemists often do not realise the extent of the trade in herbs, and by ignoring it send the public to herbalists and medico-botanists, when the chemist should be the natural source of supplies.

On reading this the practical man who has no capital to waste in experimental ventures reasonably frames mentally the inquiry, Is there any money in it? He is quite willing to sell herbs if the public want them; but if there is any such demand it has been, as the *Diary* asserts, so effectually driven away from chemists by his predecessors in the trade that it scarcely makes itself heard at all now in our shops; and it is hardly likely to pay any one person to try to tempt it

back again. As for growing plants himself, that, he concludes promptly, could be only a hobby, and hobbies he knows he cannot afford. Those of us who have the fancy to grow cabbages in our suburban gardens, and have devoted our skill in accountancy to the results, have ascertained that they thus cost half-a-crown each, and it is not for us, therefore, to controvert our practical friend's objection. But

This is the Opportunity

for those Western chemists and other reformers who desire so earnestly to free pharmacy from the taint of the secret-medicine-monger. To do this, even in a small degree, they must provide a substitute. The people who take patent medicines are concerned about their insides, and believe what they read in print. Five million cleverly written booklets, showing the varied values of our native simples and how to make use of them, with judiciously selected cases, distributed from house to house, might cripple the leviathan a bit. It would be a cheaper and safer attack than a Royal Commission. There are other possibilities. Every now and again an old herbal remedy is rediscovered. The local medical man wants to try it, and if the neighbouring pharmacist is a herbal expert, still better if he should grow that very herb in his garden, there will be benefit all round. So, too, by making a special study of the cultivation of one or two medicinal herbs, there is no reason why some direct profit should not be made.

History Repeats Itself,

we are told. If so, we need to be a little alarmed for the future of our pharmacy when we compare it with that of classical times. I get my facts from Le Clerc's famous "History of Medicine." According to that learned writer, the term *Apotheke* was first used to describe the storehouses of the herbalists. These traders were called *Rhizotomoi* and *Botanologi* by the Greeks and *Herbarii* in Latin. In the slow process of the division of labour which began in Greek medicine, these herbalists had made good their footing, and apparently they partly kept their position by their professions of religious observances in connection with the collection of medicinal herbs. Meanwhile the titles *pharmaceutes* and *pharmacopes*, which originally meant the dealers in medicaments, became terms of reproach because of their dealings in poisons, love-philtres, and the various quackeries of the day. In Rome the business was still more divided. Besides the herbalists, there were shops for medicaments, others for perfumes, others for colours; and curiously it was the last, the *pigmentarii*, who seem to have been the most respectable of all, and who ultimately absorbed the trade of the others.

A Shakespearean Curiosity

may be noted to wind up these reflections. No representation of the ancient apothecary's shop is more familiar than that so minutely described in "Romeo and Juliet." It is a remarkable sketch, and probably depicts a good many pharmacies in England as they existed in the reign of Elizabeth. But in one respect the great poet has surely sacrificed sense to sentiment. Romeo is in a street in Mantua, and it is there that he recollects having seen the shop of an apothecary

whom late I noted
In tattered weeds, with overwhelming brows
Culling of simples.

In an old city, in a narrow street, where the shops were crowded together, as was the fashion in those times, Romeo saw this poor caitiff wretch "culling of simples." He would be just as likely to find one of us culling simples in Cannon Street in this century. It does not appear that any of the commentators have remarked on this anomaly.

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Editorial Comments.

Pharmacy in 1907.

THE seventh year of the twentieth century has not been a particularly bright one for British pharmacy and the drug-trade. Thanks to a summer which was wretchedly wet until the middle of August, and a day-mild night-cold autumn (which even now we have with us in a green Christmas) there has been, for retailers, little season trade, and financial disasters abroad have tightened money at home. The internal industry of the country is better, nevertheless, and once old "scores" have been paid off, shopkeepers of all classes should benefit by the improved industrial conditions, and chemists amongst them. We are not disposed to say that this benefit has not been felt this year; had it not been the retail business of 1907 would have been disastrous, as the unseasonable weather in itself was. We reckon that improved industrial conditions have saved the situation, and kept trade from falling much below normal. In some districts there has been distinct improvement, so that throughout the year manufacturers and wholesalers have been fairly busy, and money has come in moderately well. But there is still great room for improvement.

On the practical or technical side of pharmacy the year has not been conspicuous in achievement. Original contributions to our literature are depressingly connected with the detection of sophistication in drugs on the one hand, and limitation of unavoidable impurity on the other. It is somewhat discomfiting to know that as analytical methods advance, and knowledge of constituents of natural and allied products increases, sophisticators keep scientific pace with these advances, exercising their energies especially when products go up in price. One of the lessons of the year as regards essential oils and some other aromatic products is that buyers must be constantly on the watch, for in some instances "B.P." is not synonymous with purity and genuineness, as articles are made to fit the B.P. tests. It almost seems as if, after a generation of reliance upon tests and official standards, we are getting back to the old reliance upon the reputation of the houses from whom we buy. The discussion in respect to the limitation of impurities in chemicals is recent and alive, having in the present instance been induced by the failure of the Pharmaceutical Society to provide in its "Codex" a uniform system of limitation. It is true that the principle is debatable; but the Local Government Board has during the year established figures for arsenical and plumbic impurity in citric and tartaric acids and cream of tartar which have proved of service in administering the Sale of Food and Drugs Acts. It is therefore somewhat disquieting to find that the Pharmaceutical Society rather avoids the task, especially after it has established, in conjunction with the Society of Public and other Analysts, a consultative committee capable of dealing with precisely such matters.

In legislation affecting pharmacy nothing has been done,

but there has been, at least, some clearing of the air. On behalf of the Government, Mr. Samuel, Under-Secretary for the Home Office, in February introduced in the House of Commons the Poisons and Pharmacy Bill, which passed through the House of Lords in the previous Session. It differed in two important particulars—first in not extending to Ireland, second in entirely omitting reference to limited companies. The result of the latter change was to make applicable to individual chemists only the requirement that each shop where the business of a pharmaceutical chemist or chemist and druggist is carried on shall be managed by a registered person (Ph.C. or C. & D., as the case might require). The Bill also repealed the existing Poisons Schedule, and substituted for it an enlarged one which embodied the principle of preparations of a poison being in Part 1 or Part 2 according to their potency. Mr. Samuel intimated after the Bill was introduced that he would, on the second reading, move that it be referred to a Select Committee of fifteen members. The Pharmaceutical Society's Bill was introduced almost simultaneously with the above. It was the same as before, except in one particular—namely, that the rights of apothecaries and other registered medical practitioners as regards the dispensing of prescriptions were reserved. Neither Bill was read a second time. There was the usual lobbying and circularising in regard to both measures, and some lessons have been learnt. Thus the President of the Pharmaceutical Society is so convinced of the power of limited companies as to intimate that the directorate clause of the Society's bill will be deleted: this with the hope of making progress next Session. A more important, and apparently unobserved, lesson, is that the Government bill was more vigorously supported from the outside than it was before, especially in regard to the provisions respecting the sale of agricultural and horticultural poisons. This, we know, is the result of agitation and organisation; but these are the factors that tell at St. Stephen's, and retail chemists have not had an adequate opposing force in this regard. Moreover, certain events have rather helped to show that the Government's proposals in regard to the Poisons Schedule are not unwelcome to retail chemists. In August the Pharmaceutical Society prosecuted Boots, Ltd., for selling Easton's syrup tabloids under Part 2 conditions instead of Part 1. A few weeks later Boots, Ltd., prosecuted Mr. R. A. Robinson for the same offence, and fines were inflicted upon both defendants. The immediate result was the discovery that it has been a common rule to treat sales of medicines containing normal doses of strychnine as not requiring the formalities observed in, say, selling strychnine itself. An inspiring controversy ensued, and a meeting of Scottish retailers in Edinburgh resolved to recommend their confrères to treat sales of such articles as medicines dispensed, and enter them in a book for the purpose without the signature of the purchaser. This is, of course, directly opposed to the opinion of the Pharmaceutical Council, as revealed by its prosecution of Boots, Ltd.; but it has served to reveal the existence of a widespread feeling amongst retail chemists that our poison law sadly needs revision and bringing up to date. This is a point that need not be laboured: it is a fact which must be recognised soon, it is recognised in the Government bill, which also touches the fundamental principle of the qualification of the vendor. It is a question, therefore, how far the two bills should go during the coming session. The Society is unlikely to get any amendment of the Pharmacy Acts without Government aid; the Government has learnt that it cannot push its measure in face of the opposition awakened by chemists. The problem for 1908 is to find a *modus vivendi*.

What is Cream of Tartar?

A case under the Sale of Food and Drugs Acts has recently been disposed of without entering into Court, in which a grocer sold cream of tartar which contained 92 per cent. only of acid tartrate of potassium. The public analyst considered that a prosecution of the seller would in this case be successful, as the article was much below the commonly accepted standard. The British Pharmacopœia standard is very much higher than this; but the B.P. article is "purified cream of tartar," and it is well known in the trade that cream of tartar as weak as that stated may be pure—in fact, a dozen years ago 92 per cent. was a recognised standard for the article, both as a food and a drug. In the present case representations were made to the authorities by an experienced pharmacist, and as a result no prosecution was instituted, they apparently being satisfied that the article sold was a food, to which, therefore, the drug-standard could not be applied. The case is interesting in several respects—first, as showing how pharmacists may serve local authorities with their special knowledge; and, second, in regard to the question of standards. On more than one occasion it has been successfully proved that B.P. standards for drugs are not binding when articles of the same name are sold as foods. It has even been held that a chemist who sells beeswax must give the B.P. article, but a grocer need not. The presumption is that what the grocer sells is not a drug—which presumption is wrong in many instances. In the case of cream of tartar, we daresay chemists sell as much of it for food as they do for medicinal purposes, and grocers do sell cream of tartar for use as a medicine. Should there be one standard for the chemist and another for the grocer?

A Significant Appointment.

Apart from the strictly personal element in the appointment of Mr. R. A. Robinson, jun., to the control of the Middlesex County Council's work on the administration of the Sale of Food and Drugs Acts and the Weights and Measures Acts, the appointment is one which should make for more rational administration of the Acts. The Council controls the most populous administrative area in the Kingdom, and spends more on this department of work than any other local authority. Mr. W. S. Glyn-Jones, one of its members, has quietly but effectively made the Council realise its responsibilities in these matters, not only to the public, but to the traders concerned. We regard the appointment of Mr. Robinson as the firstfruits of an endeavour to do justly to all men. The element of personal satisfaction must necessarily be secondary to the anticipation of useful work which may be done by Mr. Robinson, who, with years of experience in the drug-trade, and his legal qualification exercised in the largest community of the Metropolis, has an opportunity of giving a lead to the rest of the country in rational administration. We feel sure that his own friends and the larger circle who know his father, wish him well in his new sphere of work.

Octroi in the Punjab.

The anti-octroi agitation (*C. & D.*, November 23, p. 782) continues. Messrs. E. Plomer & Co., chemists, Lahore and Simla, give to the committee of the Punjab Trades Association this instance of how they are affected by the octroi: Messrs. Plomer have been appointed a wholesale dépôt for Parke, Davis & Co.'s products. The other principal dépôts in India are at Bombay, Calcutta, and Karachi. The terms offered by these dépôts to dealers, hospitals, missions, etc., are P., D. & Co.'s London list prices converted at six annas to the shilling, and to any wholesale business Messrs. Plomer are obliged to offer the same terms. They recently im-

ported a consignment of these products valued approximately at 1,000l.; on that they paid Rs. 440-6 rail freight and Rs. 831 octroi duty. They point out that there is a fixed rate for these products, and after paying rail freight and octroi as well almost the whole of their profit is gone. The revised octroi schedule has been sent to us, by which it is apparent that all drugs, medicines, gums, spices, and perfumes pay Rs. 6-4 per cent. on the value of goods landed in Simla, in addition to import and transit charges. The drugs, etc., are specified in the schedule and comprise about 180 native and other drugs and medicines, and such things as nutmeg, cardamoms, quince-seeds, camphor, wax, sandalwood, kamala, resin, tamarinds, pepper, cloves, saffron, and pomegranate-rind, besides "all medicines, patent and otherwise, not included in above." The perfumes specified are musk or musk, ambergris, essences and essential oils, attars, rose-water, bedmushk, keora, also "all other perfumes and scents." Chemicals are dutiable Rs. 3-2 per cent., and include

Borax, antimony, alum, alkali, acid nitric and sulphuric, bicarbonate of soda, copperas green, sulphate of copper, sulphur flour, sulphur roll, sulphur rough, and saltpetre; also disinfectants and all chemicals not otherwise described.

This certainly is a decided handicap upon traders in the Punjab, and it is to be hoped for the sake of fair trading and the development of the Punjab that the octroi will soon be removed. The Punjab Trades Association are making a strong fight against it, and any help towards placing the injustice of the duty before the public will be appreciated by Punjab traders.

French View of American Pharmacy.

The doctor-poet and novelist Dr. Henri Fauvel, formerly a leading medical practitioner at Havre, and at present officially connected with a line of steamers running between Marseilles and New York, has contributed his impressions of America to a recent number of "La Chronique Médicale." For some time past Dr. Fauvel has been deploring the retrogression of his own country, owing, he says, to the fatal indulgence in absinthe on the part of his compatriots. Struck with the vigour manifested throughout the United States, he recently dedicated a poem to President Roosevelt beseeching him to help France with his splendid energy. The sight of New York, with its colossal buildings and huge parks, made Dr. Fauvel exclaim: "We are Liliputians on our side of the water!" He introduces into his descriptive sketch the comments of his fellow-countryman M. Jules Huret (the brilliant contributor to the "Figaro") on "Pharmacists in America." The latter marvels at their heterogeneous businesses. "They call themselves druggists," he says, "with the exception of the Germans, who retain the old name of 'apothecary,' but their shops are nothing less than bazaars." Drugs are least in evidence, while immense letters proclaim the sale of "ice-cream sodas." The tobacco-counter is the next conspicuous sight. An accumulation of toilet-accessories (sponges, brushes, etc.) flanks the display of confectionery, and stationery is very prominent. Playing-cards and sporting accessories are also in evidence. The telephone service and the sale of postage-stamps are regular concomitants, and the gas companies, to avoid branch offices, arrange that their gas accounts can be settled at the pharmacists'. Books from public libraries are obtainable some of the druggists' shops in Chicago. There is one small corner in these establishments, which is often overlooked. That is devoted to drugs, "for," says M. Huret, "they sell these medicaments also!" The prescription-department is generally in the back part of the shop. What, however, is sold most of all is the so-called "tonics"—beer,

wine, whisky—as the pharmacist's shop is the only place in prohibition States where they are obtainable under this hypocritical designation. "After all," says M. Huret, "there is only the difference of a letter between 'toniques' and 'toxiques.'" San Francisco druggists, it appears, put live snakes in their windows to arrest the attention of passers-by, and do so very successfully.

Chemists' Windows.

Contributed by "C. & D." Subscribers. The Editor will be glad to receive photographs of effective window-displays for inclusion in this section. Notes on the displays should accompany the photographs. We pay for what we use.



This is reproduced from a photograph of a Christmas goods display made by Mr. H. G. Williams, photographic chemist, 118 The Moor, Sheffield. The drapery used was in dark and light shades of heliotrope, relieved with light grass-green ribbon, with flowers (roses and chrysanthemums). On the top shelf (right-hand side) were arranged boxed perfumes, 2s. to 2s. 6d.; on the second shelf cut-glass bottles (filled) ranging from 3s. to 25s.; on the third shelf a selection of 160 odd sprays, and on the bottom better-class cased perfumes selling at 5s. to 20s. On the left hand were arranged cheaper kinds, 6d. (boxed) to 2s. 6d., a shelf being set apart for each price. Mr. Williams says in regard to perfume business: "This side-line has been strangely neglected by our predecessors, consequently it has to a large extent got into the hands of the drapers, etc. From my experience during the last six years, I can recommend my brother-chemists to go in boldly for perfumery, keeping a select and varied stock."



This second show was arranged by Mr. S. B. Harwood, of Parke's Drug-stores branch at 33 Market Place, Kingston-on-Thames. It also was devoted to Christmas perfumery and toilet-articles.

A Beginner's Experiences.

How £120 was increased to £3,000 in Six Years.

THE present idea of chemists' assistants that a large capital is essential for the beginner in business, if he is to compete with company chemists and drug-stores, is much to be deplored. This idea tends to fill up the shops of the companies with good and capable men who could be doing much better for themselves, their families, and their craft by running a business on their own account. Perhaps my case may serve as a stimulus. I started business in 1901, with 120*l.* saved by myself, and in six years increased this to about 3,000*l.* After passing the Minor, in 1898, I had about 5*l.* cash remaining, so I immediately took locum work in order to save as much as possible. When locum berths were not to be had I took berths where most money was to be obtained, and, by careful living, by the autumn of 1900 I had saved about 130*l.* Finding then some difficulty in getting a well-paid berth, I began to look through *THE CHEMIST AND DRUGGIST* Supplement for a bargain business. I viewed four businesses in and around London; the fourth struck me as one which could be made to pay, but I was nervous about the seller. I took a business friend round to see the place, and he thought favourably of it, so I decided to make the plunge and paid down a deposit of 10*l.*, purchasing the stock, fixtures, fittings, goodwill, and lease for 150*l.* cash. The returns were stated to be about 8*l.* or 9*l.* weekly; the stock I guessed at about 30*l.* or 40*l.*, and the fixtures and fittings at about 50*l.* I had previously seen the landlord of the premises, who recognised the seller as his tenant, so I felt fairly safe in parting with the 10*l.* deposit. On paying this I arranged that the takings were then to be mine, the seller paying expenses up to quarter day—about a week listant. I next gave the landlord names of two references—one a relation, the other a previous employer. At the settlement the seller produced his last receipts for rent, rates, water, gas, and inhabited-house duty, and where any money was owing up to date I had an allowance off the purchase-price; anything overpaid on these items was added to the purchase-money. The seller agreed in writing not to carry on business within a mile of the premises for three years. I was about 30*l.* short of the purchase-money, so went to a friend and put the state of affairs to him, and obtained a loan of 30*l.* at 5 per cent. per annum.

In the meantime I had gone to a patent-medicine house and told their head counting-house man the exact condition of my finances, and gave him the same two references. His firm agreed to open an account with me, subject to the references being satisfactory, account to be paid monthly. I next went to a drug-house who knew me as assistant, and they agreed to let me run a quarterly account, less 5 per cent. discount; but at the end of the first month I found that I had plenty of money in hand, and altered it to a monthly account, and have never since taken any credit where any advantage was to be gained by prompt payment. The patent-medicine firm I made (with their permission) my reference for any other firm I wanted to do business with.

The shop was situated near the City, so that I was able to work on a small stock; ordering goods by midnight post I received them about dinner-time the next day. Being in a poor neighbourhood, I only required to keep goods to suit one class of people. I put in about 20*l.* more stock, and introduced some lines which I had found sell well in my berths, and during my first week's trading I took 8*l.* This was very satisfactory to me, being about what the seller had stated. At the end of the first month I had taken 49*l.*, and was thus in a position to return the 30*l.* loan, my accounts not becoming due till the next month; but in order that the lender might get a quarter's interest I waited till the three months were up before paying him off. As soon as possible I let off the house and stable at 26*l.* per annum, thus reducing the total business expenses to 39*l.* per annum. The expenses were: Rent, 40*l.*; rates, 12*l.*; water, 2*l.*; gas, 4*l.*; boy's wages, 6*l.* 10*s.*; P.M. licence and insurance, 10*s.*; total, 65*l.* I kept two rooms for myself, and arranged with my tenants to do my cooking for me—my meals and cooking cost me about 12*s.* weekly. My principles of business during this time were chiefly these:

1. To keep down expenses of all kinds.

2. To sell all goods at the lowest prices prevailing in the immediate neighbourhood, for cash only.
3. To please the public.
4. To keep stock low.
5. To pay for all goods either at the time of delivery or during the month following delivery, where any discount or advantage was to be gained by so doing.
6. To discourage "patents."
7. To make or put up myself every line of goods where there was any cash advantage in so doing.
8. To job out cheaply any dead stock either to my customers or to friends, or through the *C. & D.* Supplement.

I did not find it necessary to have the luxury of a banking account at this period. I used to pay cash to carmen on delivery or accounts to travellers directly they were due, and when no travellers called I used to walk into the City before breakfast and pay the accounts to the firms myself, getting back to open the shop at 9 A.M. The balance of cash, after paying my living-expenses, I put at the end of each month into the Post-office Savings Bank. When I reached their yearly limit I bought Consols with the balance. At the end of my first year's trading I had taken 702*l.* and bought goods costing 423*l.*; my apparent gross profit was thus 279*l.* The real gross profit was, however, 321*l.*, as I had increased my stock by 42*l.* Deducting 39*l.* (net business expenses) from the 279*l.*, available profit left me 240*l.* for myself. Of this 30*l.* 7*s.* 6*d.* went to repay loan, and about 39*l.* went in personal expenses. The balance of 170*l.* I left invested in savings bank and Consols. My assets, after deducting amounts due for goods, rent, etc., were now—

Cash in hand and invested in Savings Banks and Consols	£170
Business cost ... £150 (Estimated value of business)	250
Increase in stock... 42 <i>l.</i> as a going concern	...
Total	£420

During the next year's trading business improved somewhat. I bought goods costing 452*l.*, and my sales were 803*l.*, giving an apparent gross profit of 351*l.* There was, however, an increase in stock of 15*l.*, so the real gross profit was 366*l.* During this year, after paying every expense, business and personal, I saved 240*l.* I had not let the house and stable all the year, and had spent a little more in personal expenses. My financial position was now, after deducting all debts—

Cash in hand and invested in Bank, Consols, etc.	£410
Business at cost ... £150 (Estimated value as a going concern)	310
Increase in stock ... 57 <i>l.</i>	...
Total	£720

I now thought that I could do better with my capital, so determined to sell out. To effect this I steadily advertised in the *C. & D.* Supplement, and got a large number of replies. Most of the applicants were simply wasting time, and, I believe, wrote merely out of curiosity; and, when they called, always were most fertile in pointing out reasons why the business was no good—too many patents done, locality not high class, did not believe the stated profit could be made, neighbourhood going down, house not a palace. St. Paul's School not round the corner, another drug-store might open close by, etc. At last one applicant thought it would suit him, and agreed to take the business and pay the cash price of 310*l.* I now had 720*l.* in cash and invested. It will be noted that this is the same amount as three months previously. I had really saved about 45*l.*, but trying to assist a friend in difficulties cost me 40*l.*, and there was some depreciation in investments.

I put the cash received in payment on deposit in one of the joint-stock banks and took a holiday. After this was over I went the round of the business agents, and looked at particulars of a few businesses, picking out one that seemed favourable in a middle-class suburb of London. I viewed it, and finally bought it for 740*l.* cash down. The returns were about 30*l.* to 32*l.* weekly; stock, at cost-price, 680*l.*; fixtures and fittings, at cost-price, about 400*l.* The shop was fitted in first-class style, and looked really well, but the trouble was *no net profits*. The owner explained this by saying that the managers had made away with all the profits.

I had a good look round, and came to the conclusion that there was 100*l.* worth of stuff no good, and another 100*l.* worth that wanted jobbing out.

The business expenses, including manager's salary, were 432*l.* per annum, the gross profits were reckoned to be

23 per cent. of takings, but the house with garden was let off at 26*l.* per annum. There was on these figures very little margin of profit, but I decided I could make it pay. The owner's price was 1,100*l.*, mine 600*l.*, and we compromised on 740*l.* I was soon in possession, and started to lower the expenses. The manager I dispensed with, the gas account was soon reduced to half its previous figure, and the petty expenses to about a third. The total business expenses for the year came to 246*l.* 10*s.* The old and soiled stock I jobbed out on the public as quickly as I could—elastic stockings at 1*s.* each, 6*s.* 9*d.* chest-protectors at 2*s.* 6*d.* each, 9*d.* and 1*s.* bath-gloves at 2½*d.* per pair, 6*d.* washing-pads at 2*d.* each, 1*s.* 6*d.* and 1*s.* 9*d.* swimming-caps at 6½*d.* each, accumulation of soaps at half-price. A very large quantity of stock I threw away, as it was soiled, perished, or obsolete—*e.g.*, silk stockings, bath rubbers, enemas, sprays, liquid malt, malt and oil, and many other lines. The stock was reduced to 500*l.* by these means by the end of the first year. The gross profit was improved by putting up more of my own proprietaries and giving the junior a commission on the sale of them. By this means the "patents" sold fell from 50 per cent. to 35 per cent. of the returns, and were replaced by our own preparations. Ordinary lines which were excessively cut were dropped, and replaced by something else more profitable where possible. For example, sulphur tablets at 6*d.* per lb. and linseed and chlorodyne lozenges at 8*d.* were displaced by sulphur and sarsaparilla and Brompton Hospital lozenges. No "patents" or other people's proprietaries were shown in the shop or window unless I received payment for so doing.

During the first year I took 1,951*l.*, with the assistance of a paid apprentice and during part of the time a junior. I paid for goods 1,175*l.*, and business expenses came to 246*l.* 10*s.* I thus made an apparent profit of 776*l.* and a net profit of 530*l.* 10*s.*; but as I reduced stock by 100*l.* in value, the real net profit was 430*l.* 10*s.* My personal drawings for the year amounted to 63*l.* I thus had in hand 446*l.* 10*s.*, after making provision for accounts due by me.

I had opened a banking account when taking this business, giving a reference to a customer of the bank. As it was only a small account the bank made no charge so long as a balance of 50*l.* was kept. Directly my balance at the bank rose to 300*l.* I put 200*l.* on deposit at 1 per cent. less than the Bank rate: some banks offer 2½ per cent. when money is dear; this should be resisted.

The next year business improved somewhat, and my gross profit increased to 695*l.* 19*s.* 2*d.*, stock remaining the same. The third year my gross profits increased to 818*l.*, the net profits being 568*l.* For the nine months of my present business year the gross profits have amounted to 652*l.* The financial position after six years' trading stands thus:

Business bringing in over 500 <i>l.</i> net per annum—	
worth, say	£1,200
Shares, Government stock, and other investments	1,630
Cash in hand and at bank	188
	£3,018
Deduct amounts owing for goods, rent, rates, and taxes to date	75
	£2,943

I think this a very satisfactory result, but it would have been better if I had adopted a more progressive policy. It is my opinion that there are to-day plenty of chances for good men with little capital who are sober, industrious, economical, capable, and determined to get on. (198/58.)

Spectacle-makers' Company.

THE results of the November examinations of the Spectacle-makers' Company are given herewith. The feature of the pass lists is the preponderance of chemists who have obtained the diplomas either in visual optics or sight-testing. It is noteworthy also that the two prizes given to the candidates obtaining the highest number of marks have been carried off by chemists—the Cronin prize by Mr. H. W. Freshney (Richmond), and the Raphael prize by Mr. T. M. Ridley (Carlisle). Each of the prizes

is of the value of five guineas. The following is a list of chemists whose names are given in the pass-list, supplied to us by the Clerk of the Company:

LIGHT.

Bloor, F. A., Manchester
Powell, W. G., Sevenoaks

Smith, C., Llandudno

GENERAL AND VISUAL OPTICS.

Allen, E. C., Highgate
Beardsall, T., Manchester
Bloor, F. A., Manchester
Butterworth, A., Biddulph
Chapman, R. S., Donegal
Coates, R. S., Stratford, E.
Cole, G. M. J., Camden Town
Cook, T. M., Hindley
Cranmer, W. A., London
Davies, H., Aberayron
Etherington, L., Royton
Forbes, R. T., Stockport
Freshney, H. W., Richmond
Graham, W. T., Manor Park, E.
Hamer, T., Stalybridge
Hare, C., Birkdale
Heather, R. J., Brighton
Horrocks, G. G., Maidenhead
Jones, E., Kilburn
Jones, E. E., Brighton
Joy, T., Hebden Bridge
Kemp, C. J., Ilford
Lloyd, C. W., Harpurley
Lott, L., Burnham
Loveluck, G. D., Aberayron
Monk-Jones, J., Whitstable
Powell, W. G., Sevenoaks
Price, E. G., Lewisham
Ridley, T. M., Carlisle
Rivron, A. H., Ipswich
Rushton, W. B., Bolton
Skirrow, F. J., West Lough-ton
Standing, W., Darwen
Taylor, A. S., West Ealing
Thompson, F., Carlisle
Thorpe, A., Highgate
Turner, W. F., Totnes

SIGHT TESTING.

Addison, C. A., Cambridge
Allan, E. C., Highgate
Atkinson, J. C., Earlstown
Baker, C. B., Nuneaton
Beardsall, T., Manchester
Butcher, W. H., Blackheath
Buttersworth, A., Biddulph
Campkin, F. S., Cambridge
Chapman, R. S., Donegal
Cole, G. M. J., Camden Town
Cook, T. M., Hindley
Davies, A. R., Carmarthen
Davies, H., Aberayron
Dominy, F. J., Kingsland, N.E.
Etherington, L., Royton
Everett, W. E., Colchester
Forbes, R. T., Stockport
Freshney, H. W., Richmond
Graham, W. T., Manor Park, E.
Haines, G. H., Wigan
Hamer, T., Stalybridge
Harris, J. F., Northampton
Heather, R. J., Brighton
Jones, E. E., Brighton
Joy, T., Hebden Bridge
Kelly, S. A., Brixton
Kemp, C. J., Northampton
Lander, A., Canterbury
Lloyd, C. W., Manchester
Lott, L., Burnham
Monk-Jones, J., Whitstable
Nelson, G., West Kilburn
Page, C. H., Warrington
Price, E. G., Lewisham
Ridley, T. M., Carlisle
Rivron, S. H., Ipswich
Rose, J., Manchester
Rushton, W. B., Bolton
Scott, R. J., Walthamstow
Skirrow, F. J., West-houghton
Smith, A., King's Lynn
Taylor, R. H., Manchester
Thompson, F., Carlisle
Thorpe, A., Highgate
Turk, W. R., Deal
Turner, W. F., Totnes
Williams, H., Manchester
Wood, J., Seacombe
Young, F. W., Southport

OPTICAL INSTRUMENTS.

Miss E. Kemp (Manchester) and Mrs. J. L. Monk-Jones (Whitstable) have also been successful in the heat, light, and optical instruments sections.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

(From the "Trade-marks Journal" December 4, 1907.)

"REUTER'S SOAP" (on representation of label); for toilet-soap. By Barclay & Barclay, 44 Stone Street, New York, U.S.A. 289,196.

Circular device containing a monogram and the words "Tooth powder"; for tooth-powder. By Lionel F. Sandeman, 2 Edith Villas, Station Road, Crayford, Kent. 295,500.

Shamrock leaf bearing "Finlay's, estd. 1798, gold medal, Incorp'd. 1905"; for perfumery. By Alexander Finlay, Ltd., Victoria Square, Belfast. 296,454.

"CHRYSEONONE," for chemicals (297,227), "CYCLINIA" (297,228), "DOCTOSESSE" (297,299), "JANSIA" (297,231), "NORVICIA" (297,232), "OXYGLINTINE" (297,234), "PETROLATE" (297,235), and "TANNASEPTINE" (297,236); for perfumery. By Nuthall & Mason, 70 London Street, Bank Plain, Norwich.

- "GLYCO-THYMOLINE"; for toilet-preparations. By the Kress & Owen Co., 210 Fulton Street, New York. 297,290.
- "SOCIETY"; for perfumery. By Lever Bros., Ltd., Port Sunlight, Cheshire. 297,384
- "SEBORIA" (297,588), "TONORIA" (297,589), and "TRICHORIA" (297,590); for perfumery. By Osborne Garrett & Co., 51 and 52 Frith Street, London, W.
- "SAVOPADS"; for all goods in Class 48. By Bonvalee et Cie., 51 High Holborn, London, W.C. 297,763.

College Note.

MANCHESTER COLLEGE OF PHARMACY.—There was a sound of revelry at this College (Turner's) on the evening of December 18, when students and friends assembled for the Christmas festivities. The students' committee, under the presidency of Mr. F. Slater, had arranged a really good programme, and an excellent humorous sketch entitled "The Doctor's Patients" was given, much talent being shown by all the performers. Music and recitations concluded the first part of the evening, the success of which was largely due to Mr. A. Hall, who was secretary to the committee and an excellent "master of ceremonies." At the close of the entertainment the large class-room was cleared, and dancing, whist, and "nap" were indulged in by some, while not a few interested themselves and their friends with microscopes, under which diamond beetles and show slides alternated with stem sections, flower-buds, and ferns.

Business Changes.

Properly authenticated business notices (not being advertisements) are inserted in this section free of charge if promptly communicated to the Editor.

MR. H. W. SHEPHERD, chemist and druggist, has opened the Victoria Pharmacy, at 64 Lumb Lane, Bradford, Yorks.

MESSRS. R. H. ROBINSON and F. V. RYMER, who took over the business of Mr. F. Simco, at Wellingborough, in July last, have completely refitted the premises, which are now thoroughly up to date. They are trading as Simco & Co.

Scientific Progress.

*Temperatures under this heading are on the Centigrade scale.

A New Glucoside.—Bourquelot ("Archiv. der Pharmazie," 1907, 469) has isolated a glucoside from the seeds of *Eriobotrya japonica*, which yields hydrocyanic acid on hydrolysis. It so closely resembles amygdalin in its properties and reactions that it is probably identical with it. The leaves contain no trace of glucoside.

Spirosal.—This new remedy is the salicylic-acid mono-glycol ester of the formula $C_6H_4(OH)(CO_2)(CH_2)(CH_2OH)$. It is obtained by the interaction of salicylic acid and ethylene-glycol in the presence of mineral acids. It is a colourless, odourless oil, boiling at 170° at 12-mm. pressure. It is soluble in 110 parts of water, or in 6 parts of olive oil. It is especially recommended as a remedy for chronic rheumatic affections.

A New Sesquiterpene.—Enklaar has examined the peculiar sesquiterpene known as "ocimene," which has the general properties of a sesquiterpene, but the very low specific gravity of its ally, myrcene, the peculiar sesquiterpene found in oil of bay. He finds that by heating ocimene it is converted into a geometrical isomeride, having the following properties: Sp. gr. at $15^\circ = 0.818$, refractive index 1.5296, boiling-point 188° at 750-mm. pressure. This new sesquiterpene has been named allo-ocimene.

Eugenol Ester of o- and m-Amino Benzoic Acid.—Riedel, of Berlin, has patented a process for obtaining this local anæsthetic. The ester is obtained by reducing ortho-nitrobenzoyl eugenol and crystallising from acetic ether, methyl alcohol, or a mixture of ether and petroleum ether. It forms yellowish-white flakes, which melt at 98° to 99° , and which are easily soluble in acetic acid, acetone, ether, benzol, warm alcohol, acetic ether, and ligroin. The substance is recommended for dental purposes.

Asiatic Liquorice-root.—Asiatic liquorice, *Glycyrrhiza uralensis*, locally known as "Chuntschir," has been examined botanically and pharmaceutically by S. G. Kowalew ("Chem. Zeit. Rep.," 1907, 589). It is obtained in large quantities

in Siberia, Turkestan, and Mongolia, and represents a particular sort of liquorice. Asiatic liquorice is better, he says, than the best Spanish liquorice, and only slightly inferior to the best qualities of Russian liquorice. The autumn crop is richer in glycyrrhizin than the summer crop and floats on water, whereas the summer crop sinks.

Myrtenol.—Von Soden and Elze ("Berichte," 1907, 1363) have further reported on the chemistry of myrtenol, the terpene alcohol recently isolated from the high-boiling fractions of myrtle oil. Its formula is $C_{10}H_{16}O$. It boils at 224° at ordinary pressure and at 103° at 10 mm. Its sp. gr. is 0.976 at 20° , optical rotation $+45^\circ 45'$, and refractive index 1.4967 at 20° . It yields a chloride, $C_{10}H_{15}Cl$, of sp. gr. 1.015, optical rotation $+24^\circ$, and refractive index 1.4976. It can be oxidised to its corresponding aldehyde myrtenal, $C_{10}H_{14}O$, a liquid of sp. gr. 0.9876 and refractive index 1.5042. Its constitution appears to be closely allied to that of the terpene, pinene.

New Books.

These notes do not necessarily exclude subsequent reviews of the works. Any of these books printed in Great Britain can be supplied, at the published price, to readers of this journal on application (with remittance) to the Publisher of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

Dan, H., and Willmott, E. C. M. *English Shop-fronts Old and New.* 10×6½. Pp. 62 and plates. 15s. net. (Batsford.)

Davis, W. J. *Bird and Animal Preserving and Mounting.* Cr. 8vo. 5s. net. (Stock.)

Methods of Testing Metals and Alloys. 8vo. Swd. 1s. net. (Spon.)

Munro, A. *Key to Exercises in Bookkeeping Down to Date.* 7½×5. Pp. 100. 2s. 6d. net. (Edinburgh Wilson.)

Penlake, R. *Photographic Recipes and Formulae.* 7½×4½. Pp. 72. 6d. (Marshall, Brookes & Chalkley.) [A cheap and good compilation of photographic recipes (why "and formulae"?) which photographic chemists will find useful for reference and sale. It is not a collection of formulae for particular plates, although in a larger publication these might have been added with advantage.]

Practical Advertising: A Handy Guide by Practical Men. 10×8. Pp. 754. (Mather & Crowther, Ltd.)

Royle, H. M. *The Chemistry of Gas-manufacture.* 9×5½. Pp. 344. 12s. 6d. net. (Lockwood.)

Scoble, H. T. *Land Treatment of Sewage.* 4to. 5s. net. (St. Bride's Press.)

Smith, A. *A Laboratory Outline of General Chemistry.* 3rd edit. rev. 7½×5. Pp. 146. 2s. 6d. (Bell.)

Terry, H. L. *Indiarubber and its Manufacture, with Chapters on Gutta-percha and Balata.* 8½×5½. Pp. 304. 6s. net. (Constable.)

The Medical Directory, 1908. 10×6½. 14s. net. (Churchill.)

Thoms, Dr. H. *Arbeiten aus dem Pharmazeutischen Institut der Universität Berlin.* 9½×6½. Pp. 340. XV. 7s. (Urban & Schwarzenberg, 1 Maximilianstrasse, Wien.)

Thompson, S. P. *Optical Tables and Data: for the Use of Opticians.* 2nd edit. 8vo. 6s. net. (Spon.)

Waghorn, T. *Traders and Railways—the Traders' Case.* 7½×4½. Pp. 233. 4s. net. (Wilson, 54 Threadneedle Street, E.C.)

Winslow, K. *Veterinary Materia Medica and Therapeutics.* 5th edit. Rev. and enl. 9½×6. Pp. 866. 25s. net. (Baillière.)

Wright, F. B. *A Practical Handbook on the Distillation of Alcohol from Farm Products.* 2nd edit. Rev. and greatly enl. 7½×5. Pp. 284. 4s. 6d. net. (Spon.)

Information Wanted.

Inquiries for the names and addresses of manufacturers, or other trade information, not traceable by reference to the advertisement-pages of "The Chemist and Druggist" and the "C. & D. Diary," or not filed in our private register, are inserted here free of charge. Postcard or other replies to any of the subjoined inquiries (addressed to the Editor "The Chemist and Druggist," 42 Cannon Street, London, E.C.) will be esteemed.

- 91/19. Makers of salatone.
- 64/39. Exporters of German pine oil.
- 62/24. Actual makers of walnut pomade.
- 42/60. Present address of makers of Petanelle dressings.
- 64/70. Manufacturers of machinery for making milk powder.

Festivities.

A Manchester Social.

THE annual conversazione and dance of the staff of Messrs. Hough, Hoseason & Co., manufacturing chemists, Manchester, took place on December 19 at the Masonic Hall, Salford. High tea was served at 7 p.m., when Mr. J. H. Hoseason took the chair, about seventy members being present. The toast of "Success to the Firm" was proposed by Mr. G. Pinchbeck, F.C.S., and the Chairman, in reply, referred to the rapid way in which their industry had grown, and predicted still further development in the future. A highly successful concert, varied by dances, followed.

C. A. A. Social.

A VERY enjoyable musical and social evening, held at 73 Newman Street, W., on December 19, marked the close of this year's session of the Chemists' Assistants' Association. The chair was taken by Mr. A. B. Britton, and there was a good attendance of members and friends. The songs contributed were of the usual nautical and martial character, and where the audience had an opportunity of joining in the chorus they did so right lustily. Among those who contributed were Messrs. W. G. Northey (President), J. H. Northey, A. Latreille, R. Malone, F. Weight, H. B. Everson, G. E. Williams, — Gray, and E. Thompson.

Newcastle-on-Tyne Chemists' Association.

THE eleventh annual dinner of the members of this Association was held at the Hotel Metropole, Newcastle-on-Tyne, on Wednesday evening, December 18, Mr. T. Maltby Clague (President) in the chair, and Mr. C. Ridley in the vice-chair. Among those present were: Dr. H. E. Armstrong (Medical Officer of Health, Newcastle), Messrs. A. D. Purse (President Sunderland Association), R. H. Bell and J. A. Harrison (Sunderland), G. Foggan, R. Wright, F. Gilderdale, George Weddell, G. F. Merson (Kilmarnock), T. Wrag, R. Cubey, W. Buckley, W. R. Gray, J. Dakers, E. Dean, H. W. Noble, R. N. Low, W. Kerse (Treasurer), W. Atkins and W. Pescod (Hon. Secretary), Messrs. J. Park (Evans Sons Lescher & Webb), Woodcock (Armour & Co.), A. Turnbull (Burrongs Wellcome & Co.), Matthews (Wyleys, Ltd.), R. Ismay, J. Errington and T. Rutherford. Dr. Hambrough (Medical Officer for Northumberland), Dr. Allison, Mr. C. E. Layne, and others wrote regretting inability to attend. After dinner and the loyal toasts, Mr. George Weddell submitted the toast of "The Pharmaceutical Society" in a crisp little speech, wherein he mentioned the purpose of the Society's formation. With respect to its control of the sale and use of strong drugs, he expressed the opinion that the Society performs that function a little better sometimes than some of the members think it ought to do, and he considered that there are many other functions which the Society could perform better than it is doing at present if it were better supported. Mr. G. Foggan, of Bedlington, acknowledged the toast, referring in the course of his speech to the forthcoming Poisons Bill, and also strongly appealing on behalf of the Benevolent Fund. The toast of "The Medical Profession" was given by Mr. W. Buckley and responded to by Dr. H. E. Armstrong, who referred in his speech to the close relations between chemists and the medical profession, expressing the opinion that if medical practitioners did not dispense it would be better for them and for chemists. Dr. Armstrong also touched upon preventive medicine, speaking of the credit due to the sanitary authorities for what they have done in this direction. Mr. G. F. Merson, the first secretary of the Association, in submitting the toast of "The Association and Kindred Bodies," dealt with forthcoming legislation, speaking in favour of the Government taking over the administration of the poison laws. He referred especially to those policing duties which are necessary in the trade, and which he thought should not be put upon an educational and examining body. The toast was acknowledged by Mr. W. Kerse, who said he was glad to observe that the Pharmaceutical Society is recognising local associations and their powers for work. He looked forward to the day when local associations will take the work out of the hands of the Pharmaceutical Society and conduct affairs itself by sending delegates to carry it

on. A few other toasts were honoured, and in the course of the evening the speeches were pleasantly diversified with music by Messrs. C. Chantler, L. Bennett, F. Westwood, and A. D. Purse.

The Nottingham Arson Charge.

AT the Nottingham Guildhall on December 20, William Thomson, chemist and druggist, Robert Lee, confidential clerk, and Ernest Bradbury, assistant, again appeared in the dock charged with conspiracy in setting fire to the shop, 128 Derby Road. Dr. Tinsley Lindley, who prosecuted, said that since the second hearing certain information had come into the possession of the police, a good part of which had been received since the last adjournment. With regard to the charge of setting fire with intent to defraud, he suggested that Thomson was a person who was an accessory before the fact; that he was advising, counselling, hiring, or approving of a particular offence, and if that were so, being an accessory before the fact, he might be included, according to the various statutes, as a principal, indicted, tried, and sentenced, if convicted, just as if he were entirely and solely a principal. He proposed to put Bradbury in the box to prove the whole of the conversation that occurred between Lee and himself. He would then say what arrangements were made previous to the fire actually taking place, and tell the whole story of why the premises were set fire to and how it was done. Thomson and Lee, in their evidence at a previous hearing, said that no resin had been purchased just prior to the fire, but he should prove that on October 1—a week prior to the fire—Messrs. Dennis & Roberts supplied $\frac{1}{2}$ cwt. of resin and a large quantity of methylated spirit besides quantities of other spirits of an inflammable nature by request. The police had made a further investigation of the premises, and downstairs they discovered a lot of waste-paper, half burnt, and a quantity of the straw coverings of bottles placed together. Then, at a particular spot indicated by Bradbury, the police discovered a tin right underneath where one of the fires was alleged to have started. This tin and its contents had been submitted to the city analyst, who found the residue of the tin consisted of nothing but resin and turpentine. He then commented on the fact that both Lee and Bradbury were fully dressed when the fire was discovered. Coming to the letter, telegrams, and express letter, which it was said related only to private matters, chiefly rats, Dr. Lindley said he would prove that there was nothing at all in the suggestion of rats. The chief clerk at the Post Office (the premises were also used as a sub-post office) would say she had never seen a rat on the premises or heard any complaint of them, and Bradbury would say the same thing and suggest why "rats" should have been the cause of it. Since the fire there had been a good many meetings between Lee and Thomson, when they would be closeted together for some hours. Thomson had likewise had a deal of conversation with Mrs. Gale, Bradbury's landlady, and communications with Bradbury's sister, brother, and father, the whole tendency of which was: "Now, you tell Bradbury to keep his mouth shut, and then nobody will know anything." Thomson had been very anxious to see Mr. Bradbury, sen., sending him urgent telegrams to come over at once, but he had resolutely declined and had made his statements direct to the police. Dr. Lindley then spoke about the number of fires Thomson had had, saying there was still another one that Thomson forgot to detail and in respect to which he received compensation in addition to those he admitted.

Evidence was then called. An assistant from the City Engineer's office produced a plan of the building, and Henry Jennings, chief reader at the "Nottingham Guardian" office, gave evidence of discovering the fire and giving the alarm. The assistant magistrates' clerk produced the depositions of the evidence of Thomson and Lee given at the hearing on November 26, and these were admitted. Mr. White (who defended Thomson), however, objected to the admission of the depositions of December 2, but the Magistrates overruled the objection, and the depositions were put in. It was then decided to adjourn till January 1. Mr. White applied for bail on behalf of Thomson, but the Magistrates refused.

The Drug and Chemical Markets in 1907.

THE year now waning has in many respects been peculiar. The international trade of the country has attained hitherto unprecedented figures, yet brokers and merchants who handle produce complain that trade has been spasmodic. The year opened with comparatively high prices for many lines of Mincing Lane produce, but as the months progressed they could not be maintained, and speculators in some instances were hard hit. This downward trend of prices was more noticeable from the autumn onwards, when the financial crisis in the United States and the 7 per cent. Bank rate exerted their influence. Business on the whole, however, has been conducted on sound and conservative lines, and the outlook for 1908 points to restriction, as a period of extraordinary activity has invariably been followed by a reaction. Yet it is a matter of satisfaction that the year closes with the credit of the British drug and produce trade unshaken.

Bark and Quinine.

The bark shipments from Java during the present year have exceeded all previous records, the total up to November 30 being sixteen million Amsterdam lb., or three million more than at the corresponding period of 1906. It is suggested, however, that these figures include two and a half million lb. which was agreed by the so-called combination of planters to be held over until this year. These figures amply demonstrate that the cultivation of cinchona in Java has considerably increased, and not only is Java sending more bark (the shipments for the first half of this month were fully 50 per cent. more than last year), but the product is becoming richer in quinine year by year, as is shown by the fact that the average content of the manufacturing barks for 1907 has ranged between 5.68 per cent. and 6.51 per cent. quinine sulphate, compared with 5.78 per cent. in 1906, 5.49 per cent. in 1905, and 5.27 per cent. in 1904. In the face of these huge supplies it was only natural that the average unit should decline at almost each consecutive auction, opening in January at 6.78c. and closing at 3.71c. January was the only month that provided any excitement, there being a general scramble for bark at Amsterdam, as there were indications that the shipments would not be maintained this year; the contrary proved to be the case. That these enormous quantities of bark are quickly absorbed at each auction is surprising to many, but it only proves that the world's consumption of quinine continues to increase, and that makers have not large stocks of raw material on hand. Over sixteen million ounces of "quinine in the bark" has been sold at the ten auctions at Amsterdam this year, as compared with fifteen and a half million oz. in 1906. All attempts at a fresh combination in Java appear to be rendered nugatory by the action of those "outsiders" who would immediately profit by any attempt to fix a standard unit at Amsterdam. Regarding quinine, the year has yielded little of interest, and, with the exception of January, no speculative sales of any magnitude have been made. The makers' official price has fluctuated very narrowly. Opening at 9d. in January, there were two advances of 1d. before the month closed (this being about the only excitement of the year). At this time rumours of a combination to embrace the two outside Dutch quinine makers were afloat, but they merely existed in imagination. With the reduction in the bark unit in March, makers reduced their price by $\frac{1}{2}$ d., and in May a further 12 per cent. reduction in bark brought the official price down to 9d., and in June a 10 per cent. decline in bark found makers quoting 8 $\frac{1}{2}$ d., at which figure it has since remained, and although continuously lower prices were subsequently paid for bark at Amsterdam, quinine makers were supremely indifferent to making any alteration in the alkaloid. The secondhand market throughout has been well below that of makers', and in the spring of the year the tone was very depressed at times. The lowest point touched was in May, when cash sales were made below 7 $\frac{1}{2}$ d., and in June this price was nominal. Some improvement took place in the autumn, and large sales were made at 8d. in October in consequence

of a recrudescence of the rumours of a possible reconstruction of the quinine syndicate, but the spurt was exceedingly short-lived. These rumours are again prevalent as the year closes.

Camphor.

The values of crude camphor have diminished throughout the year, particularly in the second half, the decline over the year being about 60 per cent. This is due to increased production in South China, where, however, the output is irregular, and unless replanting takes place the industry there may become extinct in a few years. Japan is improving and extending cultivation of camphor-trees both in Japan and Formosa, and so means to avert the profitable introduction of synthetic camphor. Refined camphor closely followed the decline in crude. Up to 5s. was paid for English bells in March, but from May to August the market was depressed, and Japanese competition in refined becoming exceedingly keen, values dropped 1s. 4d. in August, a further 5d. in September, and 3d. in November (when bells touched 2s. 9d.), with a recovery of 2d. in December. These reductions in price have told against synthetic camphor, which, nevertheless, has made some headway. New companies for its production are working in England, Germany, France, Switzerland, and the United States, and up to the present most of the product has gone to celluloid manufacturers; although it is now put up in tablet form, there is a difficulty in disposing of the output, unless at prices materially below those of refined. When natural camphor was at its dearest some suspicious parcels came from China, the optical rotation differing so much from the natural as to lead to the suggestion that the optically inactive synthetic camphor had been purposely mixed with it. Whether this was the case or not, it is satisfactory to know that we have a means of detecting admixture of the two kinds.

Opium.

Few articles have commanded more interest this year than opium, the prices of which reached a high level in August, owing to a famine crop in Turkey. Over 23s. was paid in London that month, but it had the effect of reducing business to the vanishing point, and on the Smyrna and Constantinople markets not fifty cases have changed hands since September. In consequence the price has slowly sagged, and as the United States has held aloof, opium dealers have been in despair. Persia has had a good crop this year, which fact has considerably helped to alleviate the tension. Had it been known—say in June or July last—that Persia was going to ship to London the substantial quantities she has done, the advance in the Turkey drug would not have been so great. Morphine-makers have not been slow to buy Persian opium, which is as good for their purpose as opium from Asia Minor. The outlook for the next Turkey crop is promising, and in view of practical failure this year the poppy-sowing is to be more extensive. Excessive prices in a product like opium inevitably mean withdrawal of buyers from the market, except for very urgent requirements, and for this reason it is to be hoped more normal conditions will prevail next year. Moreover, the sharp advances in alkaloids, subsequently followed by equally sharp declines, create dissatisfaction all round.

Cod-liver Oil.

The element of speculation and risk in buying cod-liver oil have again been exemplified in 1907, a bad beginning ending with good fishing, which practically means that those who purchased early in the season lost money. The output of oil in Norway this year is estimated at 40,000 barrels. The unfavourable weather conditions at the commencement of the fishing induced in March an advance in prices to 90s. f.o.b. Bergen. More favourable weather ensued, and the market steadily declined, on one occasion a reduction of 8s. to 10s. per barrel being announced. Prices touched 62s. in May, then slowly rose to 70s. by the end of August, but declined again in October, and at the beginning of December 58s. f.o.b. was quoted, but from that point a firmer tendency ruled, buyers paying up to 63s. Speculators in Norway have had to pay dearly

for their operations this year. Early in the season, before fishing had properly begun, large speculative sales for forward delivery were made at very low prices, and even in March, when the outlook for the fishing was extremely poor. Suddenly speculators, believing the yield was to be short, got nervous, tactics were changed, and endeavours were made to secure crude oil at far higher prices than were prudent, with the result that their purchases of raw material to cover in the cheap sales for early delivery were made at considerably higher rates than had been bargained for. The fishing eventually closed with very good results. Consequently consumers held off, prices declined substantially in spite of the attempts to bolster them up, and some people found more oil on their hands than they cared for. Newfoundland oil, on the other hand, has not been plentiful, and has been offered at prices here which do not admit of competition with Norwegian oil.

Cascara Sagrada.

Many dealers in this important drug held the opinion that we should see a considerable advance during the year, and all evidence in regard to "peeling" gave support to this, but immediately any advance in price took place it was promptly neutralised by the offering of unprotected parcels at auction which had the usual effect of weakening the market. During the first six months spot prices ranged between 38s. and 43s. (with auction sales at below these figures) and it was not until the end of August that the market touched its highest point, 50s. to 51s., from which point there was a gradual fall until to-day the price is nearer 40s. This is probably more the result of financial stringency than of weakness in the statistical position of the drug. All accounts agree that comparatively little bark has been peeled this season, and that it is becoming increasingly difficult to get bark, and operations are now conducted at remote distances from the railroad. These facts point to the drug becoming dearer, and unless the U.S.A. Government make some attempt at conservation the tree may ere long become extinct.

Shellac

has provided little excitement this year, there having been practically no violent fluctuations, and speculators have been much more cautious in their dealings. The spot price of TN shows a decline of about 90s. since January, in which month middling to good was selling at from 210s. to 213s. The market was remarkably steady at round about these figures up to August, when steady crumbling commenced, until to-day we have prices in the neighbourhood of 120s. The fall in AC Garnet has not been so marked, owing to comparative scarcity. The eleven months' shipments from Calcutta amount to 54,315 cases, or 17,277 cases more than in 1906, while the stocks stand at 25,212 cases, against 12,355 cases, and the deliveries to 41,552 cases against 46,024 cases. In other words, larger imports, larger stocks, and smaller deliveries.

Crude Drugs.

Dealing with the prices of the principal crude drugs, we observe some interesting fluctuations. Cape aloes has been more plentiful owing to larger exports. The drug sold in January at 30s., and steadily advanced up to June, when it touched the highest figure, 47s., but during the second half of the year it declined just as steadily, touching 32s. in December. Scarcely any change has occurred in Socotrine aloes. Boxed Cuiçao aloes has been comparatively scarce, fair to good liver realising from 55s. to 62s. 6d. on several occasions, and capey from 35s. to 45s. Gourd aloes has lost favour in the United States, owing to legislation restricting the term "Barbados" to products of that island, and in consequence more has been shipped to London. Fine liver sold at 100s. on one occasion, and subsequently at 75s. to 80s., but arrivals have since brought about a decline. Less business has been done in asafetida, but it is only the Persian Gulf qualities which meet with a ready sale here, and the Bombay descriptions have weighed heavily on the market at times. Peru balsam has been excessively scarce, and prices have more than doubled, the consequence being that only a hand-to-mouth business has been done, supplies being insufficient for ordinary demand. Much spurious balsam has been on the market, the bulk of it coming *via* Hamburg or New York. Copaiba has also been scarce, and at times there

has almost been a famine in genuine balsam, with the result that adulteration has been carried to a high pitch. The operation of the U.S. Food and Drug law, which prohibits the importation of "faked" balsams passing the B.P. and U.S.P. tests, has been responsible for the scarcity, while there has been nothing to prevent the exportation of adulterated stuff. Genuine Maranhão sold up to 5s. in February, but subsequently declined to under 3s. in December. Tolu balsam has appreciated in value since January. In benzoin less business was done, the imports having fallen by over 1,200 cases, and the deliveries by about 650 packages, as compared with last year. The top price paid in auction for Sumatra gum was 9l. 7s. 6d. in April; fine almondy has been scarce. Higher prices have been paid for Siam, selected almonds realising between 23l. and 28l. per cwt., and for Palembang between 40s. and 50s. has been the range of values. The quality of buchu has deteriorated, with a tendency to mix genuine and false buchu together; much of the leaf is also smaller nowadays, but good green round always fetches valuations varying from 10d. to 1s. 1d.; calumba has been low in price all the year, although the imports have been less.

Cannabis indica has varied little, the genuine Bombay selling at between 4s. and 4s. 6d. The market has been flooded with large quantities from Zanzibar, which do not find favour here, the extractive being one-sixth only of what the genuine yields. Such parcels can only be used for adulteration, and do not enter into competition with the Bombay product. Both canella alba and cascarilla have maintained high rates, but colocynth has been cheap. Cardamoms brought better prices during the first half than during the second half of the year, as the shipments from Ceylon were heavier, being 60,000 lb. more than last year. India still remains the largest consumer, but the imports to the United Kingdom have been well maintained. Chamomiles are selling at about half the price they were in January, as the new crop yielded well, but they tend higher at the close. Chiretta has been more plentiful and cheap. Ceylon coca leaves are almost a permanent staple at auction now, there being little call for Truxillo or Huanuco. They found a ready sale at between 7d. and 10d. Croton seed has fallen into the background, and higher prices have been paid for the smaller imports. According to the stock returns, no cubebs were imported during the eleven months, but 342 bags have been delivered against 77 last year, leaving a stock of 200 against 540 bags; values have shown no violent fluctuations, ranging between 45s. and 55s. Rather less dragons' blood has changed hands, with no sensational alterations. Reboiled lump sold on several occasions at 11l. 10s., and seedy virgin lump at between 8l. 17s. 6d. and 10l. for fair to good. Dandelion ruled extremely high early in the year owing to the advertising methods of an American proprietary, but with the autumn Continental crop prices fell considerably. Both China and Persian galls have declined, while gamboge has been well maintained at between 15l. 15s. and 18l. 15s. per cwt. for Siam pipe.

The small crops of honey have led to much higher prices, up to 30s. 6d. having been paid for Jamaica, and 46s. for Californian. The consumption of hydrastis has materially declined, owing to excessively high prices, which touched 7s. in July, but a reaction came later. Ipecacuanha commenced the year at fairly high prices, but with greater imports of East Indian, which now takes the lead, values with a few slight reactions show a steady drop. Matto Grosso has declined by about 2s. 9d., Minas by 2s. 3d., East Indian by 2s., and Cartagena by 1s. 6d. per lb. With the exception of Matto Grosso, the deliveries have been much larger, this especially applying to East Indian, of which 218 bales have been sold. Jalap has sunk into disrepute, the bulk of that offered in London being New York rejections of low-resin content. Only 91 bales were delivered during the eleven months. The use of kino is becoming more and more restricted, but good Cochin maintains its value at between 1s. and 1s. 3d. per lb. Kola is a cheap and plentiful drug, and its cultivation in Africa, Ceylon, and the West Indies tends towards expansion.

Less speculation is noted in menthol, and prices have fluctuated within narrower limits this year. During the

first nine months values ranged from 8s. 6d. to 7s. 6d., closing at 7s. Many sales were made without reserve, thus rendering the article unsatisfactory to handle as a speculative medium. Genuine old-fashioned Aden myrrh has been scarce, and sells at high figures. Tonquin musk is almost a dead letter in London, Paris absorbing about two-thirds of the exports direct; first pile has moved between 82s. 6d. and 85s. per oz. Nux vomica scarce and dear throughout, with a consequent rise in strychnine, and the cessation of American competition. Most of the business in rhubarb is still done privately. Shensi druggists' trimming root has varied between 2s. 10d. and 3s. 3d., Canton at from 1s. 7d. to 2s., flat high-dried at from 1s. 4d. to 1s. 8d., and round horny at from 10d. to 1s.; the tendency in the commoner qualities has been downward, especially during the latter half of the year, but good pinky has pretty well maintained its price. Saffron has advanced in value, but squill has had a big drop. Sarsaparilla has been a feature, with a decided improvement in consumption, although genuine grey Jamaica was occasionally excessively scarce, realising up to 3s. 10d. and 4s. per lb. in February, its lowest being 1s. 7d. in August. Native Jamaica has come into extended use, selling on one occasion at 2s. 3d., but most of the business was between 1s. to 1s. 6d. The features of the Tinnevely senna market were the lateness of the crop, the improvement in the quality, and the fact that the United States bought the bulk of her requirements direct from India—an unsatisfactory feature, which may or may not be repeated next year. Jamaica beeswax closes at exactly the same price as in January—7l. 15s., touching its best (8l. 10s.) in June, and Japanese vegetable wax sold up to 67s. 6d. in February, but now closes about 10s. below that figure.

Essential Oils.

Generally speaking, the year 1907 has been one of disappointment and loss to dealers in essential oils, with a restricted consumption owing to the cold and wet summer. Of the more important oils, we find that star aniseed opened at the high price of 5s. 6d. in January, and remained steady at 5s. 5d. in February, from which point it gradually fell away to 5s. 2d. in June, and 4s. 11d. to 5s. in July, when, owing to adverse reports and heavy spot buying, prices rose to their highest point—5s. 4d. in August; from this period to the close of the year values declined continuously, spot price finishing up at 4s. 10d. C.i.f. prices fluctuated from 5s. 3½d. (March) down to 4s. 1½d., which would be accepted to-day. Owing to a genuine scarcity in China, cassia oil has realised very high prices during the latter half of the year, the advance having been steady and persistent until November, when the values were 6s. 3d., 6s. 6d., and 6s. 9d. spot, according to grade, while to arrive 75 per cent. to 80 per cent. c.a. was quoted (second-hands) at 6s. 1d. e.i.f., 80 to 85 per cent. c.a. being unobtainable. During December, however, prices declined sharply, until to-day they are about 4s. 9d., 4s. 11d., and 5s. 2d. The feature has been the great spot scarcity of high-grade oil, which sold up to 7s., at which price the demand was considerably curtailed. Clove oil has had many ups and downs, but in the main has followed the price of the fruit. In June English oil touched 5s. 2d., after which it fell away again to 3s. 8d. as rapidly as it rose, the easier prices ruling to-day (3s. 6d.) being due to want of business. English-drawn oil varies considerably in quality, and price is not always the best criterion of its value. The United Kingdom still remains the largest consumer of Ceylon citronella oil, but the demand does not appear to have been so brisk as usual. Spot prices in January opened high (1s. 10d.), and in March touched 2s., this price being maintained by importing houses buying spot stocks. After June c.i.f. prices (1s. 7d.) eased the market, and the decline has since been continuous, until we have reached 1s. 1d. to 1s. 2d.

The use of eucalyptus oil appears to be extending, as the demand over the greater part of the year has been very good, values having been maintained at between 1s. and 1s. 3d. for B.P. oils. Owing to dearer labour, and the fact that raw material has to be procured further afield, exporters are finding the distillate more costly, and this it is thought will be more so as time goes on. Globulus

oil has maintained its price at about 1s. 4½d. to 1s. 5d., and Amygdalina finds a ready market in quantity. The waterlogged condition of lemongrass oil in 1906 was further accentuated this year, a renewed fall in prices having taken place as a result of over-production in India. Ceylon has also opened out as another source of supply. The new crop (1906-07) of lemon-oil was delayed by bad weather, which set in in January and lasted well on to February. Very little old stock was available, and, aided by a combination in Sicily, prices rapidly advanced. A large quantity was sold in the United Kingdom at between 3s. and 4s., and although the c.i.f. price in February was 4s. 7d. it advanced to 6s. by March, in June it was roundabout 6s. 9d., and in November 7s. 6d. was quoted, but spot never rose much above 7s., except in isolated cases, the inclement summer keeping sales below the average. In November (new 1907-08) crop was offered at 5s. 6d. to 5s. 9d., and slightly easier prices now prevail, buying being restricted to small parcels, as buyers have an uneasy feeling in regard to the near future. Bergamot oil also advanced in price. Commencing the year at 11s. 6d. it rose rapidly to 18s. to 19s., the small stocks lending themselves to easy manipulation. The c.i.f. price for new crop in November opened at 15s., since when it has fallen away to 12s. 6d. Both sweet and bitter orange oil opened and remained at very high prices throughout the year. Indeed, it is many years since they have been so dear. American peppermint oil has proved a disappointing article to handle. The usual crop reports in regard to shortage were circulated, but it subsequently proved that the distillation, although about a month later, was well up to the average, and consequently people bought sparingly, with the result that prices of Wayne County oil have declined about 3s. since the beginning of the year, and the general position is weak, the financial crisis in the United States having directly affected the market. Opening at 9s. 9d., prices declined to 7s. 6d. by May, and subsequently to 4s., at which the oil stands. Bottled oil (H.G.H.) opened at 13s. 9d., maintaining its position for barely a month; in March it receded to 12s. 6d., but about this time a series of "without reserve" sales was inaugurated at the auctions, the result being that prices declined at each successive auction, touching 10s. 11d. in May. Subsequently there were many half-hearted flutterings of 3d. to 6d., and to-day's price closes exactly at 10s. 11d. Japanese oil has also declined, the spot price closing 1s. 6d. cheaper than in January. With the exception of a slight advance in April, the downward movement has been steady. The yield of English oil has been smaller this year, and prices have been higher.

Never has there been such keen controversy regarding the otto of rose crop as this year. Our correspondent in Bulgaria kept our readers well informed, and although his statements have been questioned by opposing interests it has since become apparent that the restraining influence of his letters has prevented consumers from being misled, while it has also prevented the bulls from taking undue advantage of a short crop to hoist up prices to 30s. and over when such were not justifiable. As it is, business in new otto has been reduced to a minimum, large consumers as a rule having bought very sparingly. If there is one lesson more apparent than another in this year's otto experience it is that attempts to inflate the values of Bulgarian otto of rose are a direct encouragement to the extended use of synthetic rose odours. One of the first results of the stringent market this summer was extended offerings of synthetics, and Bulgarians generally appear not to realise that science has so far advanced our knowledge of the rose odour that it is only comparatively cheap natural otto which prevents synthetic odours knocking out the natural. Indigo-growing is a departing industry on account of synthetic indigo, and synthetic camphor was going at express rate this year until the price of the natural was lowered. So with Bulgarian otto of rose; had the price advanced this year as much as speculators hoped, natural otto would only have been used for the best perfumes, and soap-makers and others would have been using the cheaper synthetics, probably sticking to them.

Fine Chemicals and Alkaloids.

In this group morphine and eodeine claim first attention, chiefly on account of the number of

ups and downs. The price of morphine has been altered on twelve occasions, the advance in prices from January to August amounting to 4s. per oz.; but when comparatively cheap new Persian opium came on the market the fall was almost as rapid as the rise, the reductions amounting to 2s. 6d. per oz. Codeine was subject to more violent fluctuations, advancing 5s. 4d. per oz. in all, and declining by 4s. 6d. Atropine is dearer, and acetanilide has also slightly improved. Bismuth salts have moved in favour of makers, who came to an arrangement with the German makers in August, thereby ensuring steady prices. Bromides have sunk into a hopeless condition, and people are beginning to wonder if they ever will improve. Rumours of an alliance between German and American interests have been current from time to time, but they have led to nothing. Indeed, since the negotiations were broken off competition has been fiercer than ever, and only last week our New York correspondent announced a further reduction of 2 cents, bringing the official price of potassium down to 6½d. in large quantities, from which it appears that the German syndicate is the aggressive party on this occasion. Large stocks of bromides exist everywhere, and to many people the article has lost interest. The consumption of citric and tartaric acids and cream of tartar has been unfavourably affected by the inclement summer. In spite of this, citric acid has been dear, and occasionally English was unobtainable, owing to the fact that makers were reluctant to pay the Messina prices for juice and citrate. Tartaric, on the other hand, has moved within exceedingly narrow limits, English never advancing above 1s. or below 11d., the lowest and highest prices of foreign being 10¾d. and 11¼d. respectively. Cream of tartar was comparatively steady at between 81s. and 83s. 6d. for 98 per cent. between January and July, but when the floods in the Midi occurred in October the price rose to 89s., subsequently easing when the largest maker, whose factory was destroyed, got to work again. The restrictions on the consumption of cocaine have materially affected the position, and the future is somewhat uncertain. On the one hand the manufacture of crude cocaine in Peru has ceased, but on the other there are still large stocks to be dealt with. Caffeine was advanced twice. Eserine and pilocarpine were reduced considerably in February, partially recovering some of the decline in May. Glycerin has steadily advanced from beginning to end, being 11½ per ton higher than in January. Iodine and iodides have remained unchanged. Whether British makers are obtaining their fair share of the business as against Germany and Japan is an open question. Occasionally the margin in price has been very wide, but latterly Japanese has hardened considerably. There seems to be more of an *entente* between the Chilian iodine syndicate and leading Japan interests than most people are aware of, and probably this explains the attitude of the "ring" in appearing indifferent to market conditions. The drastic reduction in lithia salts in November after a firm market throughout most of the year requires no comment. Phenacetin advanced early in the year, and has since remained stationary. Quick-silver ruled steady from January to August at 7½, but from September onwards a series of advances was initiated, amounting to 25s. per bottle, the cause of the enhanced prices being explained to our readers at the time. Mercurials followed the movements in metal only when absolutely necessary, thereby keeping foreign competition at a minimum. One of the most important changes of the year was the radical reduction of over 50 per cent. in santonin. This reduction was on the cards for several weeks, but nobody anticipated the change would be so startling; but even more startling is the announcement (just as we close for press) that the price has been reduced from 18s. to 9s. ! The monopoly had had a long innings, having hoisted the price up to 38s. 3d. in May. The fact may be recalled that santonin has been sold as low as 4s. The split between the German and Dutch sugar of milk makers has led to unbridled competition, with disastrous results to those who made contracts before the break-up. Competition in thymol has been as keen as ever, but towards the close makers have had to raise their prices by 1s., as raw material is dearer. A closer working arrangement between makers of vanillin has led to somewhat improved values this year.

Heavy Chemicals.

The outstanding features in the heavy chemical market during 1907 have been the regular demand and the steady tone of prices. The greatly increased cost of fuel and raw materials, as well as dearer casks and bags, have been of such a nature that manufacturers have been compelled to adopt a firm attitude and refuse to be beaten down by consumers, and on the whole the buyers have recognised the position and have submitted with a fairly good grace. Fluctuations of any great moment in prices have been few. As regards demand, the year opened with a good inquiry at practically all centres of the industry, and with the exception of the holiday periods this has continued throughout, at any rate, three-quarters of the year. These remarks apply to both home and export trade. A pleasing feature throughout the year has been the regular and satisfactory manner in which contracts, generally speaking, have been taken up. Most large consuming trades—as, for instance, papermakers, dyers, and calico-printers, soapmakers, etc.—have been well employed, and orders for miscellaneous chemicals have been good. About July some attention was paid to the question of 1908 requirements, but actually not much was done, except perhaps in bleaching powder for home trade before end of September or early October. Caustic soda has, of course, advanced by 10s. per ton. All principal products of the alkali branch have been very steady, and especially mention may be made of saltcake. Hyposulphite of soda has been somewhat disappointing, demand having been much less than was anticipated. Bichromates of potash and soda have remained unchanged throughout, and been in good average demand. Green copperas has ruled on the scarce side. Magnesium and zinc salts have been all along in good consumptive demand; whilst sulphocyanides, on the other hand, have been very slow. Barium products have been exceptionally firm, owing to the scarcity of the principal raw product, the mineral witherite, and also owing to the much higher prices asked for the mineral sulphate of barytes of quality used for manufacturing purposes, and there is every indication of a continuance of this position. Alumina products have not fluctuated greatly, though the tone has always been very firm, with advancing tendency, and higher costs of manufacture have been much felt in this branch. Sulphate of ammonia has, on the whole, been a good year, with the exception perhaps of a slight depression about March-April. The range of variation during the period has been about 10s. per ton, and it closes practically at the same value as at the commencement of the year.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C., December 24.

AS is usual in Christmas week, business in drugs and chemicals has been strictly confined to urgent requirements; prices of most staples are steady, about the only change of importance since our last being another startling reduction in santonin, the price of which has been exactly halved, and now stands at 9s. per lb. net for at least 2 cwt., and 11s. for less quantities. The reduction is owing to the fact that large parcels of wormseed (over 100 tons) have been sold at low prices—about 25m. per 100 kilos. Subsequently prices hardened considerably and 32m. was paid. The stocks of wormseed are said to be considerable and much scattered. Quinine is steady, with small sales of B. and S. and/or Brunswiek sulphate at 7½d. per oz. on the spot. Shellac is firm but quiet, with a small spot business on the basis of 119s. to 125s. per cwt. for fair to fine T.N., and 107s. 6d. to 112s. 6d. for matted to blocky ditto. Good to fine orange marks are firm at 165s. to 175s., and matted and blocky 145s.

to 150s. spot. A. C. Garnet is 165s. on spot, but for January-February shipment 114s. has been paid and 112s. to 113s. c.i.f. for April-May. Zanzibar cloves have been quiet, fair on the spot offering at 5½d. per lb., the nominal value of March-May delivery being also 5½d., with buyers of near arrival at 4½d. c.i.f. In pepper a large business has been done for arrival at lower prices, but on the spot there is little demand, fair *white* Singapore offering at 5½d. and fair Penang at 5d. per lb. A further decline has taken place in Chinese crude camphor, several hundred piculs for December-February shipment having been sold at 160s. per cwt. e.i.f. Hamburg; the spot prices are about 185s. to 190s. Japanese refined is quoted 2s. 6d. per lb. for 1-oz. tablets on spot. The exports from Japan during the nine months ending September 1907 amounted to 2,592,091 kin, against 2,075,552 kin in 1906 and 1,731,399 kin in 1905. It is stated that "several of the Belgian chamomile growers are still holding their produce in the hope of obtaining much better prices later on, and the stocks held by the dealers are in consequence extremely small, so that prices are already tending upwards. As it is agreed on all hands that the crop has been much smaller than that of last year, we may confidently expect much higher prices a month or two hence." No. 1 flowers are offered at 75s. to 80s. and No. 2 62s. 6d. to 67s. 6d. per cwt. c.i.f. terms. Valerian root is rather easier at 22s. per cwt. c.i.f. London. Cut burdock is offered at 20s. c.i.f. London and decorticated marshmallow root at 55s. per cwt. Grey Jamaica sarsaparilla is scarce, a little being obtainable at 2s. 1d. to 2s. 2d. Ipecacuanha is quiet, Rio (Matto Grosso) being obtainable at 5s. 6d. to 5s. 7d. and Cartagena at 5s. per lb. Bengal turmeric has changed hands at 20s., and sellers of new crop split Cochin bulbs quote 9s. 9d. c.i.f. for March-April steamer. Japan wax is steady on the spot at 57s. 6d., and business has been done in wood oil at 27s. 6d. c.i.f. for March-May shipment. Our usual letter advices from Smyrna, dated December 14, state that no business has been done in opium, the market closing weak. Holders are anxious for business, and a substantial reduction would be accepted. In its absence it is impossible to say what price would be accepted, but 16s. per lb. is suggested as a figure at which business might result for 11 per cent. The rains still continue, so that holders are more inclined than ever to grant concessions. The arrivals of opium in Smyrna amount to 1,307 cases, against 3,044 cases at the same time of last year. In London prices remain unchanged with practically no business to report. Star aniseed oil is unchanged at 4s. 9d. on the spot, and for arrival there are sellers at 4s. 1d. c.i.f. Citronella oil is easier, being obtainable at 1s. 1d. per lb. for drums on spot, and to arrive 11d. c.i.f. is quoted for January-March shipment. Lemongrass oil is inactive at from 2½d. to 3d. per oz. American Peppermint oil to come forward is offered at 7s. per lb. c.i.f., and fair spot sales of H.G.H. have been made at 11s. London terms. Japanese (Kobayashi) is quoted 4s. 9d. spot. Among the arrivals that have taken place are 80 cases benzoin, 2,923 packages cascara sagrada, 14 cases dragon's blood, 45 bags scammony root, 117 bags juniper berries, 70 bags orris, 500 cases antimony, 550 packages camphor, 251 cases lemongrass oil (from Cochin), 120 cases eucalyptus oil, 247 bales Tinnevely senna, 45 packages cardamoms, 31 bags myrrh, 14 packages buchu, 2,600 bales cloves, and 810 bales clove stems from Hamburg. In reference to our note last week about methylated ethers, we understand that no actual meeting of the makers took place, but that merely possibilities of an advance were discussed among the makers, when it was decided to make no alteration in prices for the present.

Cablegram.

NEW YORK, December 24.—Opium has been reduced to \$5 per lb. for druggists', and morphine and codeine are lower. Copaiba is firmer at 55c. per lb. for C. and S. American. Hydrastis (golden seal) is firm at \$1.85. Cascara sagrada is quiet at 9c. Senega is easy at the late reduction to 48c., and wild cherry bark is hardening, 6c. per lb. being quoted.

The exports of sandarac from Mogador during 1906 amounted to 432 tons, valued at 21,600l., of which Germany took 10,900l. and the United Kingdom 8,200l.; of beeswax 180 tons was shipped, valued at 23,110l., of which Germany took 21,800l. worth.



TO CORRESPONDENTS.—Please write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with the arguments or approval of the statements therein. If queries are submitted, each should be written on a separate piece of paper. We do not reply to queries by post, and can only answer on subjects presumably of interest to our readers generally. Letters received after the early posts on Wednesday cannot as a rule be dealt with in the current week's issue.

BUSINESS INFORMATION.—We have very full records of the makers or agents for articles and products connected with the chemical and drug trades, and supply information respecting them by post to inquirers. Inquiries regarding any articles which cannot be traced in this manner are inserted under "Information Wanted."

Formulae of Proprietary Articles.

SIR.—After reading the letter of "Australian Pharmacist," I wonder in what way he is interested. Is he a manufacturing chemist, who is anxious to know the formulae of all advertised articles which are in demand, with a view of making similar articles of the same formulae to be sold at lower prices, or is he a retailer desirous of obtaining lines which will carry a larger profit than the proprietary articles?

It is a pity he did not enlighten your readers with the names of the "more than one proprietary article, having a large sale, now being sent out to Australia with the formulae printed on the label." I believe the one or two he has in his mind are of American origin, and whether the printed formula is the real make-up is a question. Be that as it may, I maintain that any proprietor who discloses his formula shows that he has failed to realise the danger which looms ahead. The reason others will not print formula on the label is that they will not give away trade secrets, as by doing so they would lose their business entirely. The proprietors have "come forward with some definite scheme which would protect the public." If "Australian Pharmacist" had followed the reports of the meetings of the proprietary Articles Section of the London Chamber of Commerce he would have seen that they have suggested that regulations on the lines of the United States of America Food and Drugs Act be adopted—viz., that a list of poisons and deleterious drugs be scheduled, and that proprietors be called upon to state if their goods contain more than a certain proportion of any of them, or more alcohol than required for preservative purposes.

It is hoped that the firms interested in this colonial trade will wake up to the fact that unless this unreasonable legislation demanding formula disclosure is checked they will lose their colonial business, and that this drastic movement may not stop in the Colonies, but extend to other countries with which their trade is of greater importance.

Yours truly,

St. Helens, Lancs, December 21. THOS. BEECHAM.

SIR.—The "Australian Pharmacist" whose letter appears in your last issue does not appear aware of the legal danger attending the disclosure of formula by the manufacturers of proprietary articles. That a few firms may have done so and have so far appeared to suffer no injury is scarcely to the point. To name only two instances in illustration of the harm of disclosure—Warburg of the tincture was ruined through having published his formula. In THE CHEMIST AND DRUGGIST for December 14, p. 915, it will be seen that Colonel Lambkin, having published his formula for "Lambkin's cream," would find, if he desired to protect the title, that he could no longer do so. Why do our Judges, when a manufacturer is in the witness-box, protect him from having to disclose trade secrets? Because it would be monstrous to compel the disclosure of his formula, as it might lead to his ruin. No rule in court is established on a firmer basis than this. Yet the Government of the Australian Commonwealth would appear to contemplate compulsory disclosure of trade secrets while every court of law

throughout the Empire respects them. "Australian Pharmacist" asks why proprietors do not come forward with some definite scheme which would thoroughly protect the public? The answer is that they have already in the proper quarter expressed their willingness to declare their articles free from such objectionable substances as may be scheduled by the Government—a practical measure now carried out in the United States. What manufacturers object to is that under the cloak of a crusade against certain objectionable articles there would appear to be an attempt to exact such a disclosure of formula as would lead to the loss of proprietary rights not only in Australia, but, consequent on disclosure there, in the Colonies and the United Kingdom. The proposal is to treat the innocent and the harmful alike—a sure sign of bad legislation.

Yours, etc.,

London, December 24.

M. (64/96.)

P.S.—The framers of the Commerce Act, which was before the Australian House last year, showed some conscience by exempting trade secrets from disclosure, but the present proposals exhibit no such delicacy. Law is not to be tempered by Justice.

Fun for the Christmas Holidays.

Veni, Vidi, Vici (64/42) writes: "Xrayser" has set up two Aunt Sallys called Karox and Barkola, and invites the modern Athenians to have three shies a penny. A dense fog prevails in the Metropolis, and it is impossible to discover dishonesty in the "New Advertisement."

Reason in Rhyme.

Intelligent stranger, please hearken,
And weep o'er the tale of my woe,
Of a Chemist, who found his way darkened
And business get terribly slow.
Now, this was a man of some spirit,
He was in a "profession," not "trade"—
The poor man had to put up the shutters,
For the rent of his shop wasn't paid.

Intelligent stranger, still hearken,
While the other side I to thee show.
Of the happy "Cash Chemist," the Drug-stores,
Who "profession" gave up as "no go."
He cut down the prices with J—e
And on his own ground met him square,
And now is enjoying the fruits of
His gentle yet forceful "guerre."

CHEM. (230/27.)

A South African Pharmacy Board of Examiners.

SIR,—I recently raised the question of a South African Pharmaceutical Examining Board at a general meeting of chemists held in Johannesburg. The replies I got from the seven candidates who are standing for election to the Transvaal Pharmacy Board convinced me that the matter had received but scant attention, as five out of the seven replied by giving me a few generalities on reciprocity which were of no specific interest and no answer to my question. I am forced, therefore, to appeal to the wider atmosphere of THE CHEMIST AND DRUGGIST for a discussion on a concrete proposal which might form the basis of an inter-State agreement on pharmaceutical examinations. It is unnecessary to go over the history of our Boards in this country; suffice it to say that only the Cape, Natal, and Transvaal conduct examinations. I propose that a Board or Committee of Examiners be elected to conduct an examination periodically at two centres. This would be in lieu of the State Boards' examinations, and would obviate any further bargaining and discussion as to reciprocity. There would be one syllabus and one test for all Africa south of the Zambesi paving the way for one register. The examiners would be elected by the various Pharmacy Boards, and would not necessarily be members of Boards or all pharmacists. They would, of course, have control of matters in connection with Preliminary examinations. Arising out of this proposal there would be an agreement between the various Boards to accept each other's examination certificates for registration, obtained since the formation of each Board. In the matter of the acceptance of oversea Colonies, the Committee or Board of Examiners would be guided by the wishes of the various State Boards in South Africa, who would reflect the views of their own chemists. I can see nothing in the Pharmacy Acts here which would necessitate going to the Legislatures for amendment of the same in

order to create the new Board. I feel satisfied as to the need of some uniformity in pharmaceutical education here. We have been proceeding without a clear knowledge of each other's programme and requirements, which may tend to complicate matters when a final settlement is desired. I ask for a full discussion from all interested South African pharmacists.

I am, etc.,

Johannesburg, December 2.

W. B. RAWLINSON.

Private Methyating.

SIR,—With reference to recent events in the methylated spirit world, it is rather interesting to compare the respective cost of methylating in this country as against the cost on the Continent. Let us take the case of a manufacturing chemist or a varnish-maker, who uses about 400 to 500 gals. of industrial spirit per month, or, say, 5,000 gals. in a year. In Great Britain the following outlay is required:

One or two vats, of each 600 gals., cost about 5 <i>l.</i> or £10 0 0	
One vat, of 100 gals., cost about	2 0 0
Use of floor, $\frac{1}{2}$ <i>d.</i> per gal.	10 0 0
Methylator's licence	10 10 0

£32 10 0

Of this amount 20*l.* 10*s.* represents a yearly recurring charge, and of the 12*l.* expenses for vats we can also reckon with upkeep, special taps, etc., about 3*l.* a year—that is, 23*l.* 10*s.* on 5,000 gals., roughly speaking, 1*d.* per gal. Against this the Continental manufacturer would have no outlay whatever; he would simply have five stock casks holding about 100 to 110 gals. each, which he would send to the distillery to be filled with 95 gals. of spirit to be delivered under Excise seal at his warehouse. Say he wishes to methylate on Monday morning at 9 o'clock, he will give notice thereof to the supervisor of his district on the Saturday before, and he will get ready the five times five gallons of methylic alcohol or any other material he is allowed to use. On Monday at about 9 A.M. the Excise officer calls, and in his presence to each cask is added the five gallons of methylic alcohol, the certificate is signed showing that the methylation has been done according to the regulations, and the manufacturer gets his duty returned; cost to manufacturer practically nil. It seems incredible that our Excise authorities cannot devise a similar way of procedure; and why a manufacturer who uses methylated spirit on his own premises should require a methylator's licence after he has already a licence for using industrial spirit (for which he has given bond) passes the understanding of the

ORDINARY MORTAL. (64/64.)

Legal Queries.

For concise statements respecting various Acts which affect directly or indirectly the Chemical and Drug Trades, see the "C. & D. Diary," 1908, p. 456; Stamped Medicine Law, p. 435; Pharmacy and Poisons Law, p. 448; and Patents Law, p. 442.

X. (62/27).—Your poultry-powder is not "an artificially prepared poultry-food" within the meaning of the Fertilisers and Feeding-stuffs Act, so that the label is perfectly right. Compare *C. & D. Diary*, 1908, p. 457.

Lindum (63/60).—For the renewal of an off wine-licence application has to be made to the clerk to the justices in January (see *C. & D. Diary*, 1908, p. 228, for dates). The notices requisite in applying for a new licence have not to be repeated.

Friendly (64/37).—Compensation for injury cannot be obtained under the Workmen's Compensation Act unless the accident occurs in the course of employment. An accident which occurs when going from one's house to the place of employment (as described by you) is outside the Act.

Miscellaneous Inquiries.

C. E. (54/72).—TREATMENT OF DRY-ROT.—The liberal use of carbolic acid or creosote is the best application for wood affected with dry-rot. The fungus is, however, best destroyed by burning any wood it has infected. There is an interesting leaflet (No. 113) on this subject, which the Board of Agriculture and Fisheries, 4 Whitehall Place, London, S.W., would send you on request, wherein you can learn all about the life-history of the fungus.

H. E. S. (63/4).—The only method of decolorising the oil of cloves which has become dark through age is to have it redistilled.

MR. WILLIAM J. DYAS, Publisher of the "Canadian Druggist," Toronto, Canada, will be pleased to make any appointments with Manufacturers or Exporters in reference to exploiting business in Canada. Address, after July 3, c/o Ivanhoe Hotel, Bedford Street.

TO Chemists and Druggists.—Second-hand 12-ft. Drug Fitting, Drawers, Cupboards, Lockers, Shelving, Mirror, Poison-cup-board, Cornice, 4-ft. Dispensing-screen and Counter, 8-ft. Glass-fronted Serving-counter, under Counter Drawers, 5-ft. Mahogany Bent Plate-glass Counter-case, Perfumery-case and Desk, 6-ft. Wall-case; all high-class condition; the lot £47 10s.; bargain; cheap house for alterations, Window-enclosures, Glass Facias, Stall-plates; estimates free. **H. Mills, Chemists' Complete Shopfitter, Shop-front Builder, Steam Works, 163-5 Old Street, London, E.C.**

SHOP-FITTINGS. SECOND-HAND FIXTURES.—Chemists requiring additional fittings or opening new premises would find it to their advantage to write us for particulars and photographs; we have a large assortment of second-hand fittings at rock-bottom prices. **WALTER KNOWLES & CO., 83 VICTORIA STREET, LIVERPOOL.**

SPECIAL LINES IN SHOPFITTINGS.

ONE 7-ft. range of 80 drug-drawers and lockers, 60s.; 1 14-ft. ditto of 160 drawers, £6 10s. The fittings of a shop for £27.—12-ft. wall-fixture, mahogany drawers, with glass labels, £11; upright case and desk, mirror back, 40s.; 12 doz. shop-rounds, 90s.; 12 4-lb. pink jars, 25s.; 5-ft. bent-front case, 75s.; 5-ft. dispensing-case, mirror centre, 55s.; 5-ft. mahogany wall-case, very good, £5 10s.; 5-ft. glass-fronted counter and dispensing-case, £7 10s.; 3 plate-glass shelves, 21 in. long, with tapped bars and brackets, 30s.; 10 doz. recess-rounds, job line, £8 10s. Other special lines equally cheap. **R. Tomlinson & Sons, Headquarters for Second-hand Fittings, Bond Street, Birmingham.**

S.M.C. EXAMINATION.

Classes will commence early in July, in Manchester and Liverpool, for candidates preparing for the November examination. Particulars on application to

JAMES C. KIDD, F.S.M.C., F.I.O., Instructor in Visual Optics, 551 Cheetham Hill, MANCHESTER.

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AGENT WANTED, well introduced, to represent on liberal commission a special manufacture of Trusses, viz. Head-bands, Eye-flaps, Ear Ligatures, Arm Slings, Finger Protectors, in all qualities and shapes. For particulars address

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PAUSE A MOMENT

and consider this testimonial. "My returns for June 1906," writes a Chemist, "were under £40 per month. I am glad I ever got to know such a person as B. Slack, my returns for June 1907 being nearly £70." May I increase your business similarly? If so, write for B.S. Booklet.

Bernard Slack

319 High Street
WEST BROMWICH

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with **C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks**, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

(From the "Trade-marks Journal," June 12, 1907.)

"SHILLELAH" and design of shillelagh; for chemicals. By **P. Germain & Cie., 11 rue du Milieu, Petit-Ivry, Seine**. 292,715.

"PINKOBOLIC"; for chemicals. By **Joseph Crosfield & Sons, Ltd., Bank Quay, Warrington, Lancashire.** 292,002.

Picture of Deers ("before using" and "after"); for veterinary medicines. By **Alexander Robertson, Glenowen, Roseneath, Dumbartonshire.** 292,351.

"QUIXYL"; for chemicals. By **Handford & Dawson, 1 Station Bridge, Harrogate.** 291,165.

"WYCHODYNE"; for a medicine. By **Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C.** 291,355.

Letter "R" surrounded by the words **Dr. Richard's Dyspepsia Tablets** and surmounted by the words "Salutis Via"; for medicinal tablets. By **Dr. Richard's Dyspepsia-tablet Association, 53 Worth Street, New York City.** 291,214.

"SANDON"; for a toothache-remedy. By **Richard Michael Ryan, Enfield, co. Meath, Ireland.** 291,372.

"ELECTRO-TONIC PEARLS" on disc bearing figure of angel ("Electro" or "Pearls" disclaimed); for a tonic. By **the Anglo-Indian Drug & Chemical Co., 16 Market, Bombay, India.** 291,656.

"HEMATOPAN"; for medicines. By **H. A. F. Wolff, 178 Sudbrackstrasse, Bielefeld, Germany.** 291,972.

"PANZA"; for chemicals. By **F. W. Hampshire & Co., 2 Wood Street, Derby.** 291,993.

"CARWOLL"; for neuralgic powders. By **W. H. J. Carter, 75 Graham Road, Dalston, London, N.E.** 292,129.

"KNO-SKA"; for an ointment. By **H. R. Hulbert, 74 Western Road, Brighton.** 292,173.

Autograph of applicant; for medicines. By **J. H. Taylor, The Pharmacy, 13 St. Anne's Road West, St. Anne's-on-Sea.** 292,188.

Circle containing four birds and bars of music, with the notes "E.C.A."; for medicines. By **Evan Charles Ashford, 32 Gold Street, Northampton.** 292,196.

"G. T. W. C." in diamond-shaped design; for chemicals. By **G. T. Williams, 126 Cowbridge Road, Canton, Cardiff.** 292,221.

"LIN-CAM"; for a medicine. By **R. P. Roe, 20 Packer's Row, Chesterfield.** 292,465.

"THALINS"; for medicated tablets. By **Hooper, Struve & Co., Ltd., 7 Pall Mall East, London, S.W.** 292,670.

"THERMO-LAINE"; for pure animal wool (not medicated) for surgical use. By **Down Bros., Ltd., 21 Thomas's Street, Borough, S.E.** 291,774.

"ENTINE"; for pillows and cushions packed with aromatic materials and intended to have a saporific effect. By **F. D. Tippetts, Langland, Salisbury Road, Moseley, Birmingham.** 292,141.

"OYSTER SHELL" and design for photographic paper. By **Elliott & Sons, Ltd., Talbot House, Park Road, Barnet, Herts.** 290,525.

"VALENTINE"; for meat-juice. By **Valentine's Meat-juice Co., 601-605 East Cary Street, Richmond, Virginia, U.S.A.** 289,071.

"VIVO"; for cream-powder. By **W. Isaac, 26 Butter Market Street, Warrington.** 291,939.

"ACEDENE"; for food substances. By **Henry Sarson & Sons, Ltd., Vinegar-works, Craven Street, City Road, London, N.** 292,342.

"JUPITER"; for toothpicks in Class 50. By **"Jupiter" Ges. m.b.h., 13 Bohnenstrasse, Hamburg, Germany.** 288,669.

"SOLVOL"; for washing preparations and soaps in Class 47. By **B. Atha, 8 Woodbine Place, Blundell Street, Leeds.** 291,962.

"ARNIWASIL"; for a hair and mouth wash, etc. By **Arniwasil-Gesellschaft Hamburg-Altona Gesellschaft m.b.h., 111 Kleine Gärtnerstrasse, Altona, Germany.** 291,811.

Picture of a woman taking water from a fountain for perfumery. By **Jean-Constant Anthoine, 277 rue Saint-Honore, Paris, France.** 291,267.

JUNIOR; 21; whole or part-time. "Rhei," 198 Castelnan, Barnes.

LOCUM; 35; disengaged; highly recommended. "Extractor," 102 Lothian Road, Brixton, S.W.

ASSISTANT or Locum; disengaged; experienced; good Dispenser. 99 Huxley Road, Leyton, Essex.

JUNIOR or Improver (21) desires berth in London or suburbs. Alexander, 101 Marylebone Road, N.W.

QUALIFIED Lady Dispenser desires post; hospital experience. "R. P.," 52 Elgin Avenue, Maida Vale, W.

DISENGAGED; Locum, Branch Manager, or Assistant; outdoors; qualified. Burton, 67b Queen's Road, Battersea, S.W.

MANAGER or Locum; London and provincial experience; moderate terms. "Immediate," c/o 22 Bank Street, Gravesend.

LOCUM or season; disengaged; 24½; unqualified; 9 years' experience; Photography; excellent references. 59/16, Office of this Paper.

MANAGER, view purchase or otherwise; unqualified; married; good experience and references. "Prescriber" (57/20), Office of this Paper.

DISENGAGED; Junior; aged 20; tall; London and French experience; London or seaside preferred. Avar, 11 Linnæus Street, Hull.

QUALIFIED; 27; Assistant or Manager; experienced; Dispenser; good references. "Iridin," 6 Dartmouth Park Avenue, Highgate, London.

QUALIFIED; 24; Counter; Dispensing; Photography; City or West-end; outdoors preferred. Bellamy, 29 Sussex Place, Queen's Gate.

BRANCH Manager, Locum, or position of trust; disengaged; married; experienced; Manchester district preferred. 57/18, Office of this Paper.

DISENGAGED July 14; Locum or permanency; experienced; Manager; aged 30; Extractor, etc. "Ricini," c/o Rix, Chemist, Caversham, Oxon.

MANAGER, with view to succession preferred; would take Locum; just relinquished business. "D.," 68 Radcliff Buildings, Clerkenwell Road, E.C.

BRANCH Manager, Assistant, or Dispenser to Surgeon; experienced; middle-aged; steady; reliable; good references. "H. P.," 47 Kilburn Park Road, N.W.

GENTLEMAN (36) desires change as Manager; experienced all branches; Prescriber; splendid Salesman; abstemious. "Extractor," 42 West Ella Road, Harlesden, N.W.

ASSISTANT; good experience; first-class Retail and Dispensing; Photography; good references; shortly disengaged; outdoors. "Sumend," 30 Embleton Road, Levensham, S.E.

LOCUM or permanency; experienced; Reliable; Counterman, Dispenser, Prescriber; Photography; 34; unqualified; shortly disengaged. "Locum," Thomas's Drug-stores, 105 Talbot Road, Bayswater, W.

QUALIFIED; 28; Photography, Extractor; abstainer; Locum or Assistantship, with time for reading; quiet country or seaside preferred. middle August, for 4 or 5 weeks; highest references. "Electron" (52/39), Office of this Paper.

MANAGEMENT or Locum; best Pharmaceutical, Photographic, and Store experience; 32; qualified; undeniable references; disengaged June 30; every satisfaction guaranteed. "Chemist," St. Neots, 104 Gleneagle Road, Streatham, S.W.

AS Manager, with view to partnership; Branch not objected to; advertiser has had good varied Retail and valuable Wholesale experience; has increased returns before, and can augment profits now in addition; tall; married; undeniable references right through. For further particulars apply 54/24, Office of this Paper.

WHOLESALE.

TRAVELLER, large connection, desires engagement; highest references. "G.," 39 Murillo Road, Lee.

ADVERTISER (30), qualified, desires to Represent, in Scotland, good Drug or Sundries house. Apply, 55/38, Office of this Paper.

PERFUMERY and Toilet Preparations.—Advertiser, well up in the manufacture of above; excellent references; London preferred. "Extralts," 32 Agincourt Road, Hampstead.

SIDE-LINE wanted by gentleman with 12 years' experience among Chemists in Scotland, Ireland, and parts of England. 49/35, Office of this Paper.

TWO strong youths seek situations in a Wholesale Drug department; have good experience and knowledge of Drugs, &c.; abroad preferred. 54/34, Office of this Paper.

WELL-EDUCATED lady (aged 24), daughter of Chemist, representing a leading London Drug-house, is anxious to Travel in suitable article. "X. Z." (51/32), Office of this Paper.

GENTLEMAN, 14 years' Wholesale experience, desires situation as Traveller with good Drug-house; willing to go abroad; excellent references. "Veritas" (55/15), Office of this Paper.

ADVERTISER (28), with all-round experience, desires berth as Foreman or Assistant Manager; good references; moderate wages. "Phenacetin," 125 Railton Road, Herne Hill.

AS Representative of a good house for South Africa; many years' experience; large sound connection, and well known both in Africa and this country. "F. S." (54/14), Office of this Paper.

REPRESENTATIVE, resident on the ground, thoroughly experienced, reliable, highest references, open for engagement, Yorkshire and Lancashire; Drugs, Chemicals, and Specialties. "B." (55/36), Office of this Paper.

GENTLEMAN, middle-aged, very active, good interviewer and Salesman, having disposed of his business, is seeking engagement as Representative to a reliable firm and where good business may be anticipated; or Manager. 56/7, Office of this Paper.

TRAVELLER.—Qualified Chemist, exceptional experience of road in Drug and allied trades, wishes Represent good house; has good connection, first-rate selling record, and unimpeachable references; reliable; competent; earnest worker. "Opt." (59/11), Office of this Paper.

ADVERTISER, wishing to employ his holiday profitably, would be prepared to pay for instruction in estimation of Alkaloids and Standardising Tinctures, etc. Apply, stating terms, to 43/14, Office of this Paper.

MISCELLANEOUS.

TEST THEIR SIGHT.

I have no hesitation in asserting that there is hardly a town in which a Chemist could not make more than £100 a year out of Sight-testing and Optics after he had taken up and gone through my Postal Tuition Course of Sight-testing. Fee Two Guineas.

C. E. Bamister Practising Optician, BLOXWICH.

MCADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, London, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of all commission, subject).—300 Camwal Ordinary 5s. 3d., 25 Preference 12s. 3d.; 100 Ilford 6 per cent. Preference, 14s.; 100 Ildris "A" Ordinary 26s. 3d., 206 "A" Preference 20s. 3d., £100 Debenture £83; 45 Meggeson 5 per cent. Preference, 92s.; 50 Mellins (Colonial) 6 per cent. Preference, 16s. 9d.; 200 Barclay & Sons 5 per cent. Preference 12s. paid, and 40 £1 fully-paid Ordinary, bid wanted; 115 Wickens Pease Ordinary, 56s.; 100 International Sponge Ordinary, bid wanted.

WANTED (subject).—15 Evans Lescher & Webb Preference, £5 6s. 3d. List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

MAHOGANY SHOP-FITTINGS.—MUST BE SOLD AT ONCE.—24-ft. range of drug drawers, &c., with shelving, cornice, and three mirror cupboards over; 12-ft. plate-glass wall-case; 6 ft. ditto; back fitting, 12 ft. long; 17-in. glass-fronted counter; 10-ft. ditto, with 7-ft. dispensing screen over; 2 counter cases, &c. All the wall-fittings are about 10 ft. 6 in. high. Could be adapted for any shop. Would sell separately. Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND).—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

THE annual meetings of the Proprietary Articles Trade Association and Chemists' Defence Association, Ltd., will be held at Anderton's Hotel, Fleet Street, E.C., on Thursday, July 18, at 3 P.M. and 4 P.M.

THE Leicester Chemists' Association have arranged a picnic to Nantant for July 18

Personalities.

THE Karox Manufacturing Co. publish a warning this week as to wilful substitution of Karox compound.

MRS. DE PUTRON, of 10 Beauchamp Road, Lavender Hill, S.W., desires us to thank the many friends of her late husband who have written to her kind letters of sympathy and condolence.

COUNCILLOR MARK WHITTAKER, druggist and manufacturing chemist, of Clayton-le-Moors, near Blackburn, has gone on a trip to the United States of America, combining business with pleasure.

MR. J. RIGHTON, chemist and druggist, Lord Street, and Mr. J. Joye, chemist and druggist, 30 London Street, have been elected members of the Executive Committee of the newly formed Southport Traders' Association.

MISS LOUISE HUTCHINS, daughter of Mr. E. C. Hutchins, chemist, Lower Kennington Lane, S.E., after having studied two years at the University of Paris, has passed the examination for the "Certificat d'Etudes Françaises" in History, Language, and Literature, held at the University.

THE "Cheshire County News" of June 21 contains an illustration of a bas-relief for the miniature rifle range at Bury Grammar School, presented by Mr. Thomas Kay, J.P., of Kay Bros., Ltd., Stockport. The design was made at Mr. Kay's suggestion by the art master at Stockport Technical School, and was executed at Pisa, Italy.

MR. D. O. HAYNES, of "The Pharmaceutical Era," New York, whose visit to London we mentioned last week, is spending a month in Switzerland before his return to New York. Mr. Haynes, Mrs. Haynes, and family are spending August and September in Paris and on the Continent. His eldest son, Mr. N. Williams Haynes, of "Field and Fancy," New York, was with his father in London.

MR. ALANSON S. BROOKS, of the Michigan Drug Co., Detroit, one of the largest drug-businesses in the United States, has, with Mrs. Brooks, been spending some time in Paris and London, and sailed by the *America* from Southampton this week. When we saw him for a short time on Monday, Mr. Brooks was in the best of health and spirits, and spoke cheerily of the American drug-trade, which is not all, he assured us, by any means like the department store-pharmacy in a Western town. A lady who had heard how cheaply prescriptions were filled there took one to the store, and the clerk in the drug department told her it would cost 70c., which was a clean cut. When she returned to get the mixture she gave a dollar in payment and got 50c. change. "How is this?" she asked. "You told me it would be 70c., and now you give me 50c. change." "Well, it's this way, madam," said the clerk; "there are seven ingredients in your prescription, but we've only five of them, so we charge you only 50c." Mr. Brooks adds solemnly, but with a twinkle in his eye, that history telleth not whether the omitted two were placebos or active ingredients.

Among the articles imported into Kiukiang last year were aniline dyes, valued at 7,248*l.*, against 6,766*l.* in 1905; also 42 cwt. of ginseng (4,687*l.*), against 35 cwt. (2,632*l.*) in 1905. Native medicines were imported to the extent of 5,473*l.*, or 1,078*l.* more than in 1905.

At the Counter.

IN THE LAND OF EGYPT.—Mr. George Myrialaki, of the London Pharmacy, Cairo, sends us an original order from a Cairo resident he had received, which reads: Ines froud sold." The initiated will have little difficulty in spotting the well-known saline intended.

A BUNCH FROM BRISTOL.—There are several curiosities in a batch from Bristol which an industrious subscriber has mounted for our delectation on a sheet of demy. We select a few of the best: "1*l.* Shark's blood," "oil of commersh," "clunpet root," "epyoukekyouhuanah," "bacilix ointment," "seizet's powders," "diarams or breast powder," "Salvalato," "diagma," "power cuties," "Anti Priory," "Brasbolxadca," "Bolsom turo," "2 pennar alitubeitte," "oil of jupetitur," "foxes lungs and oil of wormes," "Fly's balsam," "red supperade powder," "barbaric acid," "diara," "carvonated iron," "dullwater," "small bottle Ioish slack."

CULLED AT CROMER.—A number of verbal, as well as written, counter requests collected by an assistant to Mr. Davison, of Cromer, are rather funny. The caligraphic communications include demands for "Youkiliptors," "essence of effa" (a long way from peppermint), "Steven's acid seed," "Epeququack," "Yellow misseletin," "Recnot bite alas and powed glass," "Pills—Quick Walker's," "False Bottom," "Bottle of Sandwiches," "Elijah Pills," "White Pacific Powder," "Carminative of Potash," "Tube Linoleum," and "Glory define." The verbal interviews were equally varied. "Can you tell me where I can buy a mule?" "Will you wind up my watch? I haven't a key with me." Enter a lady, leading a boy with bare feet, covered with sand and dirt, on a busy morning in the height of the season. "I want you to wash this boy's feet. I think he must have cut himself on the beach." Great indignation when told that was rather out of our line. Said chemists in other places did it.—Enter well-dressed man and dog: "Will you put some cod-liver oil in a saucer, and see if this dog will take it, and, if so, I will buy a bottle." When it was pointed out that the dog might splash it all over the floor, the potential purchaser departed, apparently dissatisfied.

PROVINCIAL PUZZLES.—A Horncastle subscriber was addressed thus: "Sur Will yeu be so cind to sen me to hounes of loudanum bay Saldery moring bay post."—"Up-lias for a cold" was an easy one for Birmingham.—From Bournemouth we hear of "Ezramuck Soap" and "pumigated pottage."—Mr. J. H. Taylor, of St. Anne's-on-Sea, was recently asked for "In the gloaming." He wonders if our readers can guess what was meant. It is a tonic.—At Halifax a caligraphic curiosity demanded "a litel ½ glas for tit."—A Pickering puzzle calls for "2 pennyworth of Luke of ripshine." What would be supplied generally in this case?—From Bury St. Edmunds we have several curiosities. It takes some ingenuity to make "3 punk eye pick" into ipecacuanha lozenges. The following from the same town was a market-day order: "A baby feeling milk bottle one of the new ones not one with the long tubes on a bottle of Lavender water a bottle of winters healt for chillbrains a bottle of Lavender Smelling Salts a bottle of mother seigles surpes 2 penny of luckers powers 3 Penny conchrietty.—The assistants in a Lowestoft pharmacy had a tremendous struggle with "2*d* sprits of campor and strates agolard," and no wonder.—Mr. C. W. Booth, of Derby, encloses a quaint collection including "1*l.* of white phyhkie," "finchar of gum go akciham," "1*l.* worth of muck bean," "Sidemen stick," "a pennoth of paricar as I have suffer over 9 month with a cough," "Kindly send 1 oz of carbon of iron and say if I am to take the 1 oz at once for neuraliga."—Oddments from various parts of the country include "Palm of Voilates," "ereismick," "Prock side iddisson," and "6*d.* glacialine for the white-mouthed baby."—A Cleethorpes batch contains "Confrestnor of scaney," "white Gl—Lard," and "Arnacke."—From Bradford way we have a phonetic and curt request in writing for "oil of llms soup of voilets 2 6 month old dry coff," another for "3 pennyworth of Srafran for dying curtains," and a third for "a powder for a child 5 years old he has got the measles . . . he is orse and he thortt is sor."



EXCHANGE COLUMN—BARGAINS.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

"YEAR BOOKS OF PHARMACY," 23 vols., 1870 to 1892; clean; what offers? ANDERSON, Chemist, Stockport.
 TWELVE years, 1873 to 1884 (6 vols.), *C. & D.*, good condition; cost 2s. 6d. each to bind; and 17 years, 1886 to present time; what offers? FARRER, "Waterloo," Stroud.

FORMULÆ.

A SUPERIOR carbolio tooth-powder; large sale (on merit); P.O. 2s. 6d.; sample, stamp. 44/23 Office of this Paper.
 100 PRACTICAL recipes, containing all that a Chemist needs to produce attractive and saleable specialties; thoroughly reliable; 2s. 6d. complete, post free. LEE, Chemist, Teddington.
 COMPLETE set of rare and valuable soluble essence formulas, suitable for the aerated-water trades; confectionery; quintessences; wine and fruit essences; guaranteed practical and reliable. Apply, 48/11, Office of this Paper.

OPTICAL AND PHOTOGRAPHIC.

SIXTY microscope slides, 1s. 6d. doz.; 6s. 6d. lot. LINTIN, 170 Freedom Road, Sheffield.
 ZEISS microscope, unused, 3 powers, $\frac{1}{2}$ Homog Immers DD, AA; cost £19; sacrifice, £10; deposit. "F. S." (54/41), Office of this Paper.

PROPRIETARY ARTICLES.

125 MUNYON'S 1s. remedies, 2 4s. 6d. Clarke's B41 pills; offers. Apply, 56/11, Office of this Paper.
 ABOUT 6 doz. Epps's 1s. pills: what offers to clear? 8 gals. Long's specific, 1s. 6d. gal., carriage forward. Write, LINNETT, Banbury.

SHARES.

SHARES for sale. See p. 70.

MISCELLANEOUS.

WHAT offers?—18 gross $\frac{1}{2}$ -oz. bronze bottle-cases, B.P. ('98), U.S.P. (1890). DONNELLY, Derby Street, Bolton.

SODA-FOUNTAIN (Matthews), with 6 syrup-jars; outfit complete; must be sold; cost last year £35; what offers? 54/32, Office of this Paper.

DENTAL cabinet, ash, over 80 instruments, including Abbott's automatic mallet, £3 5s. "BURFIELD," 5 Abbots Road, Southall.

FOR sale, cheap, 1 120-gal. iron circular tank, with glass gauge; 1 40-gal. iron tank; 3 80-gal. iron tanks; all in sound condition. For particulars and price apply, FORD, 58 Carlton Road, Ashton-upon-Mersey.

CAMPBOR, 7 lbs., each $\frac{1}{2}$, 1, and 2-oz. squares, 4s. 6d.; pill-machine, 5-grain, 24, 10s. 6d.; 7 lbs. pulv. pinus canadensis, 4d.; 14 lbs. black peppercorns, 6d.; 5ij. atropin sulph., 2s.; 1 lb. zinc chloride sticks, 1s. 6d.; 2 doz. 1s. Nelson's gelatine, 4s. 6d.; or reasonable offers. LIVESY, Preston.

WANTED.

EMPTY essence coppers and leads. Write, 27/39, Office of this Paper.
 SMALL cash register; must be in good condition. GREENALL, 125 King Street, Oldham.

CHECK-TILL, cheap; also shop jars; 2-lb. or $\frac{1}{2}$ -lb. sizes. FAWN, Chemist, Castleford.

MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.

MORTAR and pestle, outside, with bracket. State size and price, HENDERSON, Chemist, Aberdeen.

OLD artificial teeth bought; cash by return post. DENT, 4 Chatsworth Road, Stratford, London.

TWO small swan-neck carbons, cut stoppers, cheap. State size and price, BRINDLE, Blackburn Road, Bolton.

PROCTOR'S "Pharmacy" (latest), Bower's "Practical Botany." Write price, "S.", 152 Camberwell Road.

JEANCON'S "Diseases of Sexual Organs, M. & F.," Vinolia household disinfectant soap. DONNELLY, Derby Street, Bolton.

WANTED, outside shop-lamp, suitable for Store Chemists; fair condition, cheap; also 2 small carbons. STORES, 852 Stratford Road, Birmingham.

ADDRESSES WANTED.

ADDRESSES wanted of Mr. Campbell Ker, also a Mr. Campbell (an elderly gentleman travelling with Mrs. and Miss Campbell). SAVAGE & Co., Chemists, Brighton.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Wednesday, July 17.

Society of Chemist-Opticians, St. Bride Institute, Ludgate Circus, London, E.C., at 5.30 p.m. Council-meeting.

Newcastle-on-Tyne Chemists' Association. Annual excursion to Seaton Delaval. The party will be joined by the members of the Sunderland Pharmaceutical Association at New Bridge Street Station, and will travel to Hartley Station by the 1.55 train (return fare 1s. 2d.). Tickets for tea and refreshment (2s. 6d.) from Mr. W. Pescod, Hon. Secretary, 60 Osborne Avenue, Newcastle-on-Tyne, should be applied for by July 15.

London Chemists' Association, St. Bride Institute, Ludgate Circus, E.C., at 5.30 p.m. Meeting of the General Purposes Committee.

Thursday, July 18.

Leicester Chemists' Association picnic to Nanpantan. The programme includes a cricket-match at Loughborough, drive to Nanpantan, meat tea, and musical entertainment. Tickets (3s. 9d. each) are obtainable from Mr. G. E. Marfitt, Infirmary Square; Mr. C. J. Avery, Belgrave; and Mr. A. E. Young, Gallowtree Gate; but none can be issued after July 15.

Proprietary Articles Trade Association, Anderton's Hotel, Fleet Street, London, E.C., at 3 p.m. Annual meeting.

Chemists' Defence Association, Ltd., Anderton's Hotel, Fleet Street, London, E.C., at 4 p.m. Annual meeting.

THE thirteenth annual meeting of the Federation of Local Pharmaceutical Associations will be held in the Midland Hotel on July 23 and 24, the proceedings opening at 2.30 p.m. each day. The first day will be taken up with the consideration of motions in regard to the constitution and meetings of the Federation and election of officers, while on the second day a paper will be read on "Secret Remedies and Proprietary Preparations," by Mr. J. Cofman, and on "Buying Sections," by Mr. J. Gilbert Jackson. A discussion will also take place on "Restraint of Trade (Shops) Bill."

College Notes.

SOUTH OF ENGLAND COLLEGE OF PHARMACY.—The copy of Remington's "Pharmacy" offered for competition by Messrs. Burroughs Wellcome & Co. among the students of this College, has been awarded to Mr. Harold Page Oldham, of Worcester, after a keen competition, only one mark separating him from Mr. Edgar Nichols in a total of 230.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

School of Pharmacy, 17 Bloomsbury Square, London, W.C.
Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Chemistry, Pharmacy, and Botany
323 Clapham Road, London, S.W.

South of England College of Pharmacy, 186 Clapham Road
London, S.W.

Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester.

Manchester College of Chemistry, 225A and 227A Oxford Road, Manchester.

PLASMON LIBEL APPEAL.—The Master of the Rolls, Sir Gorell Barnes, and Lord Justice Kennedy on Thursday, July 11, heard the appeal of the defendants in the case of International Plasmon v. MacSymons' Stores, Ltd., for verdict and judgment at trial, before Mr. Justice Lawrence and a special jury. The nature of the action was fully reported in the *C. & D.*, May 4, p. 666, when the jury assessed the damages at 100l. Mr. Horridge, K.C., now addressed the Court for the appellants, and was followed by Mr. Shearman, K.C., for the International Plasmon Co. The Court allowed the appeal. The Master of the Rolls said there must be a new trial on the issue of slander of goods. He need say no more than that the evidence did not justify the finding of the jury as to the amount of special damages, and that the Judge did not call the attention of the jury as plainly as he might have done to the material facts of the case. The other Lords Justices concurred.

Continental Markets Report.

ACID, CAMPHORIC.—In view of the decreased price of raw material this article also costs less—about 32m. per kilo. In spite of the high value which has been maintained, the demand has been good, especially for export, but a further decline in price is probable.

ACID, CITRIC, up to the present has been poor; the available quantities are quite sufficient, and here and there in second-hand it is possible to obtain more favourable prices.

AGAR AGAR.—Much firmer tendency; 330m. per 100 kilos. for prime white threads, spot (Hamburg). Japan's quotations are reported at 350m.

BALSAM COPAIBA MARACAIBO.—Prices have gone down considerably, owing to the arrival of supplies; the tightness which was for some time apparent has now disappeared, and it would seem that this was only occasioned by the intentional holding back of supplies. In any case the goods are now valued again at 450m. to 475m. per 100 kilos., and quotations will probably sink still lower.

BALSAM PERU continues very firm, with brisk demand for the Continent, and especially for New York. Hamburg price, 24m. per kilo.

CAMPHOR.—A Hamburg report states that the anticipated decline which set in at the beginning of June for raw and refined goods has continued, and the price of China crude fell to 275s. per cwt., and that of refined from 1,050m. (its highest point) to 1,000m. This reduction caused overladen speculators to realise, until a sudden change in conditions was sprung on the market on June 17, when it became known that the monopoly had raised prices by quite 20 per cent. Thereupon trade became brisk, and it looks now as if things had taken an upward turn. Speculators and holders of high-cost are very busy, and it will shortly be shown whether this movement is supported by consumption. The enormous power of the Japanese monopoly must be taken into consideration, for Japan is well aware that the natural Japanese product cannot be replaced by a substitute—not even by synthetic camphor. Present conditions are worthy of attention, as the next few weeks may bring about decided upward changes. Japanese camphor in chests of 100 lb. and in slabs of 2½ lb. is offered at 980m. per 100 kilos. net.

CANTHARIDES.—The supply from China, which at one time failed completely, has now become available in sufficient quantities, but the demand for manufacturing-purposes seems to have been covered for a considerable period, as, in spite of the low price, there are no buyers. Russian is obtainable in Hamburg at 7½m. per kilo., with increased demand.

HERB CROPS.—A Paris letter states that the weather continues to be so unfavourable for the gathering and drying of plants that a general rise is to be noted, which chiefly affects limes, chamomiles, etc. With regard to centaury, certain firms in the Midi have acquired the bulk of this article, and have sent up the prices to almost 2f. per kilo. This is not likely to be permanent, however, as there is no lack of production. The crop is normal, and considerable quantities are being held back, especially in Algeria, and should be obtainable at more reasonable prices.

PECACUANHA.—Prices have gone down considerably in consequence of large simultaneous arrivals at different ports. Quotations in Paris are for Rio 17f. to 18.75f. per kilo., and for Cartagena 15.50f.

LYCOPodium is firmer at 420m. per 100 kilos. in chests or 410m. in sacks.

MENTHOL is firm. Best dried "Kawase" crystals, 18½m. per kilo.

OIL, PEPPERMINT.—In good demand. H.G.H. is selling in Hamburg at 11½m. per English lb., and Todd oil at 9½m. per English lb.

PLATINUM SALTS.—The latest quotations of makers show an advance in chloroplatinite to 165m. per kilo. Whether this denotes the beginning of a permanent rise cannot at present be determined.

SARSAPARILLA.—A Paris report states that 100 bales changed hands last week, and the available stock at Havre is now somewhat reduced. A small quantity is offered at 105f. net, Paris.

WAX.—There has been small demand for Carnauba of late, either in the inland or export markets. Current grey spot goods are noted at 317.50m., fatty grey quality at 337.50m., whilst quotations for the yellow qualities are rather lower. Brazil quotations exceed the price-level for local goods, and that is why most of the Hamburg importers are holding back their stocks from the market. They are of opinion that the autumn will bring considerably higher values. Within the last few days Japan cabled higher quotations, and the local value of this article has improved accordingly. Available goods are not obtainable below 112-113m. shipment goods not under 114-115m. c.i.f. It is probable that the market for ceresin will be very unsettled now that the Ceresin Syndicate has broken up, and competition has considerably increased.

GOOD SELLING LINES FOR COLONIAL & HOME TRADE.

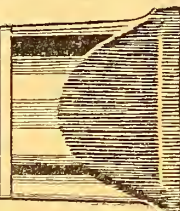
MARSHALL'S REEL

FLY CATCHER.



BEST IN THE
MARKET.
SELLS AT
SIGHT.

6/6 per Gross
Carriage Paid.



**Collapsible
Tubes
of all kinds.**

Adeps Lanæ,
Anhydrous, odourless
10d. per lb.



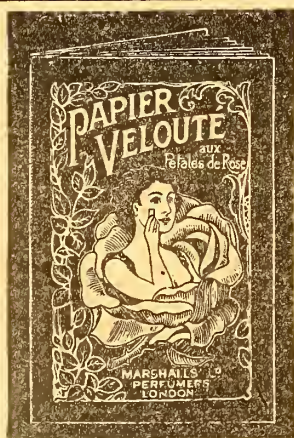
PILE OINTMENT.

AN EFFICACIOUS PREPARATION, PREPARED
WITH WITCH HAZEL, NEATLY PACKED IN
1 OZ. TUBES, CARTONED COMPLETE WITH
TUBES, 7/6 DOZ.; SPARE TUBES, 3/- DOZ.



POUDRE DE RIZ DE JAVA.

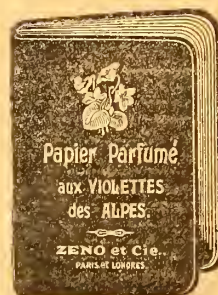
A popular and pure Skin Powder.
3/- and 4/- per doz. boxes.



Powder Leaflets, 2/6, 4/6 doz.



Contains Nail Powder Leaves,
Chamois Polisher, Orange Stick
and Emery Board. 30/- gross.



Satin bound, gilt edge
booklet. 3/6 dozen.

Marshall's, Lim., 27 Red Lion Square, London, W.C.

P.A.T.A. Meeting.

THE annual meeting of the Proprietary Articles Trade Association was held at Anderson's Hotel, Fleet Street, London, E.C., on Thursday afternoon, July 18. Mr. P. F. Rowsell (Chairman of the Council) presiding. Among those present were Messrs. F. W. Powell (Thomas Powell, Ltd.), G. H. Burroughs (Liverpool), H. Gadd (Exeter), B. Hirst (Leeds), Geo. R. Barclay (Barclay & Sons, Ltd.), F. W. Goodhue (Iron-Ox Co., Ltd.), E. Pickering (F. Newbery & Sons, Ltd.), S. Roberts (May, Roberts & Co.), A. Tebbutt, W. Lane (J. Woolley, Sons, & Co., Ltd., Manchester), C. K. Maconochie (Oatine Co.), William Edwards, R. O. Gardner and A. Hesse (Yardley & Co., Ltd.), Cooper (C. H. Phillips Chemical Co.), E. K. Bishop (Idris & Co.), Sigismund Kutnow, J. W. Sutherland (Glasgow), R. Feaver Clarke (Gravesend), W. R. Barnes (Plaistow), S. N. Pickard (Ossett), Blake P. Allnutt, E. A. Hayman, J. C. Pentney, W. E. Gaze, A. S. Cannay, J. Davies, C. J. G. Bunker, and W. S. Glyn-Jones (secretary).

In moving the adoption of the report and balance-sheet (see *C. & D.*, June 22, p. 940) the chairman briefly touched on the main points in the report. Alluding to the "substitution" question, he thought he could say with confidence that the whole of the retail members of the trade is at the back of the manufacturers.

Mr. Geo. R. Barclay seconded the motion.

Mr. Cooper, of the C. H. Phillips Chemical Co., read a letter from his firm, in which they complained that when they joined the Association one of the rules was that the limit of profit to the wholesaler was to be 10 per cent. They observed that this rule had not been strictly adhered to.

Mr. Gadd urged that a reserve fund should be created.

Mr. Lane thought it extremely unfair that the two-thirds of chemists in business who are not members of the P.A.T.A. should reap the same benefits as the one-third (3,769) who paid and kept it going.

Mr. Pentney agreed and in his usual vigorous style he characterised the non-members who took all the benefits and contributed nothing as cowards.

Mr. Kutnow said the question of substitution should be taken up more vigorously by the Association.

Mr. Hirst, replying to Mr. Cooper with regard to variation in terms to manufacturers, said the Council had to consider the matter of quantity and demand. It was found utterly impossible to have a hard-and-fast line for the article in small demand and for that of worldwide reputation.

Mr. Cooper directed attention to the rule about the 10 per cent. limit, and asked if it was fair.

Mr. Pickard having spoken, Mr. Glyn-Jones pointed out that Mr. Cooper was under a misapprehension as to the existence of any rule. There was not, and never had been, any rule as to the rates of profit. The matter had always been left to the discretion of the Council, and they had considered each case on its merits. If they had stuck hard and fast to the rule of guaranteeing in every case a 25-per-cent. profit to the retailer and 10 per cent. to the wholesaler the Association would have failed absolutely to get on the list the bulk of the articles now there. Recently the Council had been more strict, and every month articles are rejected on the score of inadequate profit.

The Chairman referred sympathetically to the death of Mr. Theophilus Nicholls, whose place on the Council has been taken by Mr. G. A. Grayson. He also alluded to the advisability of manufacturers placing a distinctive mark on protected articles.

Votes of thanks followed.

Chemists' Defence Association, Ltd.

THE annual meeting of the C.D.A. was next held, the attendance being small. Mr. W. R. Barnes was in the chair, commented on the annual report and accounts (*C. & D.*, June 29, p. 940). He moved the adoption of the report and accounts, which Mr. Rowsell seconded.

Mr. Pentney, Mr. Pickard, Mr. Sutherland, and Mr. Bunker also spoke, the last-named stating that no membership had lapsed except through retirement from business or similar legitimate cause.

Mr. Johnston (secretary) said it would be an encouragement if more attended the annual meeting. He gave some instances in which chemists had benefited by their membership. The directors were re-elected by a resolution which allots them a guinea for each attendance. The auditors were also reappointed. The last business was the alteration of Rule 24, so that the reserve fund will in future be allowed to reach 2,000*l.* before dividends are made to shareholders. The chairman was thanked by Mr. Pentney, seconded by Mr. Clarke.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

BRITISH PHARMACEUTICAL CONFERENCE opens on July 22 by reception at the Town Hall, Manchester, by the Lord Mayor. The session opens on July 23, at 9.30 a.m., in the Midland Hall. See programme in *C. & D.*, June 15, p. 905.

THE thirteenth annual meeting of the Federation of Local Pharmaceutical Associations will be held in the Midland Hotel on July 23 and 24, the proceedings opening at 2.30 p.m. each day. The first day will be taken up with the consideration of motions in regard to the constitution and meetings of the Federation and election of officers, while on the second day a paper will be read on "Secret Remedies and Proprietary Preparations," by Mr. J. Cofman, and on "Buying Sections," by Mr. J. Gilbert Jackson. A discussion will also take place on "Restraint of Trade (Shops) Bill."

College Notes.

OUR EDUCATIONAL NUMBER will be published next month, and we would be glad if teachers who have not yet done so would advise us as to their arrangements for 1907-8.

THE VACATION is now a reality, the conclusion of the "Square" examinations marking the departure of the principals of Colleges to fresh woods and pastures new. Mr. H. Wootton has gone to Switzerland.

MR. R. C. COWLEY, of the Liverpool School of Pharmacy, has for years had to contemplate the fact that Sandon Terrace, where his school has been since he took it over, was to get into the hands of the housebreakers. He has now removed to 18 Colquitt Street—a central position, and excellent rooms for the purpose of study and investigation.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

South London School of Pharmacy, 325 Kennington Road, S.E.

Westminster College of Chemistry and Pharmacy, Ltd., Trinity Square Borough, S.E.

London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.

Leeds College of Pharmacy, Clarendon Road, Leeds.

Birmingham and Midland College of Chemistry, Pharmacy, and Botany, 45 Newhall Street, Birmingham.

Bath and West of England College of Chemistry and Pharmacy, Bath.

Liverpool School of Pharmacy, 18 Colquitt Street, Liverpool.

Italian Items.

(From a Florentine Correspondent.)

QUININE AS A POISON.—In Italy quinine ranks next to sublimate as a poison. It is cheap and easy to procure. A tube or two of the State quinine in tablets costs but a few centimes, and overdoses cause a painful and fairly speedy death. [This is unusual.—EDITOR.]

MALARIA DEATH-RATE.—From a report just published it seems that the death-rate in two years from malaria has fallen 35 per cent. In 1901, 12,000 died, while in 1903, 8,000 died. In the Campagna Romana, malaria's classic soil, it has fallen from 17 to 5.39 per 100,000. Every State official, from the doctors down to the policemen, is to take arms against this summer scourge, and to push the sale of the State quinine.

MILITARY PHARMACISTS are now units of the Italian Army—Sanitary Service branch. They may serve from the age of twenty-five to sixty, retiring on a pension after thirty-five years' service. Their uniform is of a fine black cloth, with magenta trimming, they wear a helmet bearing on a round disc the red cross, and they carry a short dagger and a revolver. Their pay and position are superior to those of a non-commissioned, but inferior to those of a commissioned, officer, though they may attain the rank of major or captain in the Sanitary Service.

DRIED LIZARDS are used by the Chinese as a tonic and an invigorating medicine. Last year 211,095 pairs were exported from Wüchow, valued at 2,767*l.*, compared with 147,449 pairs, valued at 1,920*l.*, in 1905.

J. D. HAIR-PRODUCING CAPSULES

PRICES STRICTLY PROTECTED.

IT having come to our notice that a chemist in a large provincial town was offering J. D. Hair-Producing Capsules (not supplied to him by us) below our **strictly protected price of 1s. 9d.**, we have thoroughly investigated the matter. It appears that the chemist had been persuaded by an opponent of our own to cut the price—a most reprehensible proceeding considering that our opponent is an advocate of price-protection.

This was the first and only case of cutting our goods which has been brought to our notice, and we are happy to say that, after an interview with our principal, the chemist referred to immediately raised his price to the protected figure, 1s. 9d., at which it is maintained.

We shall promptly investigate any other case of cutting that is brought to our notice, and, when proved, supplies will be stopped. Any chemist who is asked by rivals to cut the price of **J. D. HAIR-PRODUCING CAPSULES** will oblige by promptly advising us. Our Capsules need no cutting: they sell on their merits at their face value.

JULES DENOVAL & CO.,

Carlton Works,

New Cross Road, London, S.E.

The Latest News.

EDITORIAL OFFICE, 42 CANNON STREET, LONDON, E.C.

THURSDAY, July 25, 1907.

The Prohibition of Medical Practice by Companies Bill was read for the first time in the House of Commons last night, and is down for second reading on Monday next.

Messrs. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C., inform us that as special selling agents for Messrs. W. Gossage & Sons' glycerin, they are in a position to supply it for export in quantities of 1 cwt. and upwards at the manufacturers' prices.

Lieutenant-Colonel Alfred Charles Preston, V.D. (Messrs. Thos. Hodgkinson, Prestons & King), has been elected Master Warden of the Carpenters' Company for the ensuing year. It is interesting to note that each member of the above firm bearing the name of Preston has now held that honoured position—i.e., five out of six Prestons in thirty-four years.

Our representative in the House of Commons informs us that the Prime Minister is to make a full statement tomorrow (Friday) with regard to public business. The occasion will be a motion to suspend the eleven o'clock rule during the remainder of the session—a session which Sir Henry Campbell-Bannerman intimated is not likely to prove a short one. In making this motion it is usual for the Leader of the House to indicate the measures with which the Government proposes to persevere. We should not have long to wait therefore before we learn the fate of the Poisons and Pharmacy Bill.

Messrs. Davidson & Co., 14 Queen Street, Edinburgh, the makers of Davidson's Bile Beans, have completed a scheme of advertising to which they call the attention of the retail trade. The 1s. 1½d. and 2s. 9d. sizes of the beans are protected at 1s. and 2s. 6d., and offered at 7s. 9d. to 6s. 8d. per dozen for the smaller size, and 20s. to 16s. for the larger, according to the quantity purchased. There is a discount off these prices for cash, and an additional discount for pushing the beans, as well as an allowance for window-displays. Full particulars in regard to the matter can be obtained from the firm on application for the "fair trade" offer.

To-day a B.P.C. party of 360 are having a grand time in the English Lake District, in spite of the fact that they had a bad send-off from Manchester at 8.30 A.M. Then it was raining heavily, and never did the prospects look so gloomy. But during the run by rail to Windermere the weather cleared up beautifully, and one of our editorial staff telegraphed to us at 1.10 P.M. saying that it is a glorious day. Everybody, even those who had done it before, was delighted with the steam yacht sail from Windermere to Ambleside. When they arrived there all had a short walk to a luncheon marquee erected just outside the village. The fine weather, the magnificent scenery, and the splendid entertainment gave delight to the party. After luncheon, at which the ladies and the Local Committee were once more praised, the excursion was resumed by coach to Grasmere. We must leave our thoughts about that, and what afterwards happened, unexpressed, as the printing-machine travels faster and goes further than the coach and horses.

Our Paris correspondent informs us of the death of Professor Schlagdenhauffen, honorary director of the Nancy School of Pharmacy, one of the best types of scientific French pharmacy. He was in his seventy-eighth year. In his letter promising fuller particulars next week our correspondent says:

M. Schlagdenhauffen was a great admirer of the *C. & D.*, and four years ago, when I took an opportunity of calling on him at the School of Pharmacy at Nancy (M. Schlagdenhauffen was then the titular director), he brought out the recently-issued Special Summer *C. & D.*, and spoke of it in terms of admiration, asking many questions as to how such a publication was produced as a number of a weekly journal. The interview has remained a most agreeable recollection with me, and the fact that the professor had received practically every honour a man of science can hope to get in France added an interest to the visit which I shall not easily forget.

William Hy. Briggs (46), Copley, Halifax, was found drowned in the river at Copley yesterday morning. He was a traveller for his brother, Mr. Thos. Briggs, chemist and druggist, Sowerby. An inquest was held this morning, when Mr. Thomas Briggs was called, and stated that since his wife's death sixteen months ago deceased had been much distressed. A verdict of suicide by drowning whilst in an unsound state of mind was returned.

POMADE HONGROISE.—In the Bill Chamber of the Court of Session, Edinburgh, on Tuesday Lord Mackenzie had under consideration a note presented by the County Chemical

Co., Ltd., Birmingham, against Robert Suthe, Morriston Factory, Main Street, Cambuslang, to have him interdicted from selling or supplying pomade hongroise or similar pomade or fixing for the moustache or beard which is not of their manufacture or supplied by them. The complainers averred that they manufacture pomade of which the respondent used to be a considerable buyer. It is made up in tinfoil tubes, and covered with a label of a distinctive design, colouring, and lettering. They had learned that the respondent has recently begun to manufacture and sell such pomade himself, and that he makes it up in tubes of a similar size, shape, and make as theirs, with a label which is in colour, design, and lettering essentially a reproduction of theirs, and they averred that the respondent's actions have interfered with their trade. The respondent denied that there is anything special about the pomade, and said that his tubes and labels are different in many essential respects from those used by the complainer. Lord Mackenzie refused to grant interdict meantime.

CHEMICAL AND DRUG MARKETS.

ALOE.—Since the auctions further sales of Curaçao in gourds have been made at the limits. The arrivals amount to 50 boxes capey Curaçao.

BENZOIN.—The demand for Sumatra continues rather slow, owing to the high prices asked. Siam is scarce and wanted, there being only a case or two in first-hands, which is held for extreme figures. The stock of Palembang is now low, but there has been no material alteration in price, fair seconds being still obtainable at 40s. to 42s. 6d., and low at 32s. 6d. per cwt. The arrivals of benzoïn amount to 35 cases Sumatra only.

CAPSICUMS were cheaper at auction, 51 bags Nyassaland selling at from 18s. to 19s. per cwt. for long bright-red off-stalk.

DRAGON'S BLOOD.—There have been no arrivals, and the stock is now very low, good lump in first-hands being almost unobtainable.

GAMBOGE.—There is some inquiry for good Siam pipe, but the market is bare of such, the nearest approach being rather drossy pipe, for which 157. 15s. is quoted. Saigon is fairly plentiful at about 137. per cwt.

GINGER.—At auction there was practically no demand for Jamaica ginger, and of 250 packages offered, 22 packages of odd lots sold at rather easier rates, including ordinary at 69s. 6d. and good ordinary at 74s. per cwt. The market privately, however, is still regarded as being very firm, and the statistics, when published, will disclose the actual strength of the position. Like other "season" products, the consumption has this year fallen off.

IPECACUANHA.—No arrivals have taken place since the last auction. Market remains quiet on the basis of 5s. 6d. for sound Matto Grosso.

OIL, PEPPERMINT, is quiet but steady, good Wayne County tin oil offering at 8s. per lb. spot, and American H.G.H. at 11s. 9d. Japanese dementholised (Kobayashi) is 5s. 3d. spot (rather buyers), and for Suzuki 4s. 11½d. c.i.f. is quoted in combination with menthol at 8s. 3d. c.i.f.

SARSAPARILLA.—The limits for native Jamaica have been slightly reduced, fair bright red now being obtainable at 1s. 2d. per lb and dull brown at 11d. to 1s. as to colour. About 20 bales of native are close at hand, but no grey. The offerings next week will include 10 bales of grey, part of a recent arrival.

VANILLA.—At auction rather over one hundred tins, chiefly Ceylon, of common quality, were offered, the bulk of which sold at steady prices, a few good frosted realising full rates. The following were the prices obtained: Ceylon (76 tins offered, 68 sold), firsts, frosted, 6½ in. to 8 in., 13s. to 15s.; 3½ in. to 6½ in., 10s. 6d. to 12s., good split, 3 in. to 8 in., 9s. 6d. to 10s. 6d.; foxy split, 3 in. to 7½ in., 7s. 3d. to 8s. 6d.; common dry, 6s. 6d.; and mouldy 7s. per lb. *Seychelles* (30 tins offered, 18 sold): Brown dry, 2½ in. to 5½ in., 7s. to 8s.; foxy split, 3½ in. to 6½ in., 7s. 9d.; dry split, 3½ in. to 6 in., 6s. to 7s.; common, 4s. to 4s. 6d.; and mouldy to good mouldy, 1s. 3d. to 6s. 9d. per lb.

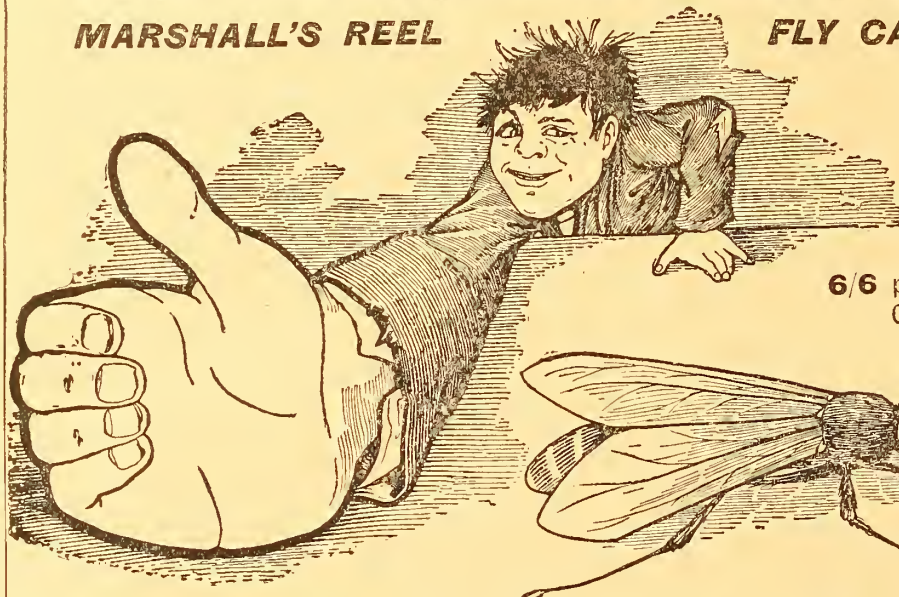
CABLEGRAM.

NEW YORK, July 25.—Business in drugs is of a jobbing character. Hydrastis (golden seal) is lower at \$1.52 per lb. Opium continues to advance, \$6.50 per lb. being quoted for druggists' in single cases. Morphine has also advanced in sympathy to \$3 per oz. Quinine is unchanged on the basis of 16c. per oz. for 100 oz. tins in bulk. Turpentine is weak at 59c. for American. Messina essences are higher. Refined camphor is declining, being now obtainable at \$1.05 for bulk in barrels. Copaiba is slightly easier at 50c. per lb. for South American pure.

JAVA QUININE AUCTION.

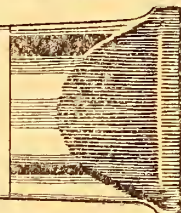
At the auction of quinine held at Batavia on July 24, 5,365 kilos Ed. II, were offered, of which 3,003 kilos, sold at an average price of 11f. per kilo (=3½ cents Amsterdam unit), against 11.30f. per kilo. (=3 cents Amsterdam unit) at the previous auction.

GOOD SELLING LINES FOR COLONIAL & HOME TRADE.

MARSHALL'S REEL
FLY CATCHER.


BEST IN THE
MARKET.
SELLS AT
SIGHT.

6/6 per Gross
Carriage Paid.



**Collapsible
Tubes
of all kinds.**

Adeps Lanæ,
Anhydrous, odourless
10d. per lb.



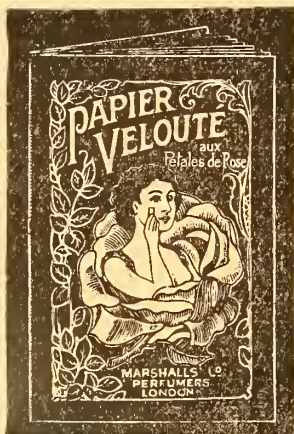
PILE OINTMENT.

AN EFFICACIOUS PREPARATION, PREPARED
WITH WITCH HAZEL, NEATLY PACKED IN
1 OZ. TUBES, CARTONED COMPLETE WITH
TUBES, 7 6 DOZ.; SPARE TUBES, 3 - DOZ.



POUDRE DE RIZ DE JAVA.

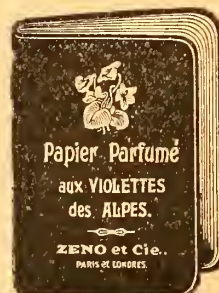
A popular and pure Skin Powder.
3/- and 4/- per doz. boxes.



Powder Leaflets, 2/6, 4/6 doz.



Contains Nail Powder Leaves,
Chamois Polisher, Orange Stick
and Emery Board. 30/- gross.



Satin bound, gilt edge
booklet. 3/6 dozen.

Marshall's, Lim., 27 Red Lion Square, London, W.C.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

(From the "Trade-marks Journal," July 24, 1907.)

- "SCALOL"; for chemicals for photography. By Johnson & Sons, Manufacturing Chemists, Ltd., 23 Cross Street, Finsbury, London, E.C. 293,843.
- "HORNE'S REFRIGERATING COMPOSITION," "POLAR-BEAR BRAND"; for a temperature-reducing composition. By Sir W. A. Rose & Co., 66 Upper Thames Street, London, E.C. 293,010.
- "FLAMBEAU"; for chemicals for photography, etc. By Jones & Co., 34 Copperfield Road, Bow, E. 293,047.
- "CAMDEX"; for all goods in Class 1. By John Crampton & Co., Ltd., 2 Hewitt Street, Deansgate, Manchester. 293,856.
- "MICKROKIL"; for all goods in Class 1. By W. C. V. Harwood, 49 Fitz James Avenue, West Kensington, London, W. 292,777.
- "ASCHE" and signature of firm; for medicines. By C. F. Asche & Co., 33-41 Danzigerstrasse, Hamburg, Germany. 292,820.
- "RAJA"; for medicines. By E. V. Davis, 141 Croxted Road, Dulwich, London, S.E. 292,939.
- "BREATHONE"; for all goods in Class 3. By W. Snelgrove & W. C. V. Harwood, 25 Victoria Street, Westminster, London, S.W. 293,386.
- "KORNAX"; for a corn-cure. By T. W. Hazelby, High Street, Hungerford, Berkshire. 293,841.
- "EXNIP"; for a medicine. By Exnip Co., 154 Lees Road, Oldham. 293,842.
- "WELLSOIDS"; for chemicals. By W. F. Wells, 20 Upper Baggot Street, Dublin. 293,849.
- "NEUROPHOS"; for all goods in Class 3. By W. S. Mitchell, 35 King Street, Egremont, Cheshire. 293,899.
- "BILAX"; for chemicals. By Foster McClellan Co., 8 Wells Street, Oxford Street, London. 294,166.
- "VEEDELEC"; for all goods in Class 11. By J. E. Garratt, 96 Southwark Street, London, S.E. 291,389.
- Design of Britannia resting against a lion; for surgical dressings. By Arthur Berliner, 15 and 17 Worship Street, London, E.C. 292,528.
- "GOLD KORN"; for malt-preparations. By Pfister Mayr & Co., Sonnenstrasse 19, Munich, Germany. 291,407.
- "BIOGENE"; for invalid food. By Bonthron & Co., 50 and 52 Glasshouse Street, London, W. 293,271.
- "GARLAND"; for food-substances. By Wm. Kingham & Sons, High Bridge Wharf, Reading. 293,529.
- "COB-HANA"; for food-substances. By The Watford Mfg. Co., Ltd., 60 Bunhill Row, London, E.C. 293,776.
- "BASTOL"; for food-substances. By The British Alcohol Syndicate, Ltd., 3 Lloyd's Avenue, London, E.C. 294,218.
- "TREYDORS"; for aerated and mineral waters. By the Belfast Mineral Water Co., Ltd., York Road Factory, Belfast. 293,233.
- "LAVENOID"; for detergent for cleaning celluloid articles. By M. E. Melsom, 15 Dover Mansions, Brixton, S.W. 291,927.
- "LILYSTONE"; for soap in Class 47. By Thos. Hedley & Co., Ltd., Fairy Soap-works, City Road, Newcastle-on-Tyne. 293,051.
- "HIBERNIA"; for perfumed soap made in Ireland. By David Brown & Son, Ltd., Donaghmore, Dungannon, co. Tyrone. 284,178.
- "CYNTOL"; for dentifrice. By Henry Uren Olver, 118 Harley Street, London, W. 291,016.
- "THACHET"; for a preparation for the hair. By Richard Owen Woosnam, "Carno," 20 Spring Road, Edgbaston, Birmingham. 292,870.
- Design of label bearing figure of a woman surmounted with words "Jewel of Asia"; for perfumery. By John Gosnell & Co., Ltd., 213 and 215 Blackfriars, London, S.E. 293,043.
- Design of mimosa-plant; for perfumery. By Thomas Hedley & Co., Ltd., Fairy Soap-works, City Road, Newcastle-on-Tyne. 293,052.

- "THYALIN"; for goods in Class 48. By "Fram" Mfg. Co., 296 Broad Street, Birmingham. 293,331.
- "TATCH-OFF"; for a razorless shaving-preparation. By Joseph Szalay, 29 Princes Parade, Church End, Finchley, London, N. 293,473.
- "ALIQOT"; for all goods in Class 48. By Edward Cook & Co., Ltd., East London Soap-works, Bow, London, E. 293,520.
- "CREMOTO"; for perfumery. By S. F. Goss, Ltd., 460 Oxford Street, London, W. 293,530.
- "ECILA"; for perfumery. By S. F. Goss, Ltd., 460 Oxford Street, London, W. 293,531.
- Sketch of spoon having "S.S.S." on the handle; for a razorless shaving-preparation. By Joseph Szalay, 29 Princess Parade, Church End, Finchley, London, N. 293,766.
- "MELLO CUTO"; for perfumery. By Jonah Jones, 161 New Cross Road, London, S.E. 293,834.
- "HAYANETA"; for all goods in Class 48. By H. Bronnley & Co., Ltd., Warple Way, Uxbridge Road, London. 293,966.
- "CUPIDOR"; for perfumery. By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London. 294,184.
- "WEEK END"; for perfumery. By Wm. Frederic Charles, Zenobia Laboratory of Perfumes, Baxter Gate, Loughborough. 294,260.
- A balloon bearing letters "G. S."; for combs. By George Soley, 11-12 Love Lane, Wood Street, London, E.C. 293,333.
- "B. B."; for combs in Class 50. By Geo. Brett & Co., 2 Lealand Terrace, Uxbridge Road, West Ealing, W. 293,455.
- "KOZOID"; for razor-strops and paste and shaving-brushes. By Trew & Snow, 15-17 Eldon Street, London. 293,798.

(From the "Trade-marks Journal," July 31, 1907.)

- "TITANITE"; for paints in Class 1. By Llewellyn Ryland, Ltd., Balsall Heath Works, 24 Haden Street, Birmingham. 291,851.
- "ARUM"; for paints in Class 1. By Sissons Bros. & Co., Ltd., Bankside, Sculcoates, Hull. 293,859.
- "ANTA" below picture of a tapir; for paints. By R. Singlehurst & Co., 11 Redcross Street, Liverpool. 293,898.
- "CARBALPINE"; for all goods in Class 2. By the Alpine Disinfectant Co., 9 Scale Lane, Kingston-upon-Hull. 293,129.
- "KEEPERL"; for veterinary pills. By Keeper L, 2 Bush Street West, Southsea. 293,503.
- "ZIODA"; for a rat-destroyer. By Robert Emerson & Clara Samter, 259 Uxbridge Road, London, W. 293,671.
- "SAVO" above a fitch; for a preservative powder. By James Finan, 30 Victoria Road, Tranmere, Cheshire. 293,651.
- "MAPLE BRAND"; for copper sulphate. By the Mond Nickel Co., Ltd., 39 Victoria Street, London, S.W. 293,720.
- "HYPO-CLENZOL"; for chemicals. By A. & W. H. Crowther, Providence Mills, Luck Lane, Marsh, Huddersfield. 294,013.
- "ECLIPSE"; for artificial manures. By Charles Bernard Robinson, 37 Belvoir Street, Leicester. 293,745.
- "SIC" on design of label; for a medicine. By Laboratorio di Biologia Applicata Quinto Al Mare, near Genoa, Italy. 287,170.
- "WELLCOME"; for chemicals. By Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. 290,998.
- "SEARCHLIGHT"; for pharmaceutical preparations. By George Panter, 77 Victoria Crescent, Eccles, Lancashire. 292,763.
- "GOODWILL OIL"; for a pain-killer. By James Lumsden Goodwell, 30 Cloughton Road, Barking Road, Plaistow, London, E. 293,250.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

- Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.
- Westminster College of Chemistry and Pharmacy, Ltd., Trinity Square, Borough, S.E.
- London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.
- Liverpool School of Pharmacy, 18 Colquitt Street, Liverpool.
- Birmingham and Midland College of Chemistry and Pharmacy, 45 Newhall Street, Birmingham.
- Leeds College of Pharmacy, Clarendon Road, Leeds.
- Bath and West of England College of Chemistry and Pharmacy, 6 Cleveland Place East, Bath.
- University of Birmingham, Birmingham.

WHOLESALE.

SIDE-LINE wanted by smart Traveller; expenses and commission. "L," 106 Chesnut Avenue, Forest Gate.

WANTED, situation at Export or Wet Counter; 12 years' experience; aged 28. Address, 109/33, Office of this Paper.

WANTED, situation as Traveller for Lancashire for good house; aged 32. Full particulars, apply to "W." (106/3), Office of this Paper.

REPRESENTATIVE; experienced; Proprietary or Sundries; London and provinces; best recent reference. 106/16, Office of this Paper.

YOUNG gentleman (25), knowing what the Retail trade require, would like berth as Traveller with good house. Write, 105/29, Office of this Paper.

GENTLEMAN (30) as Traveller; London or provincial; experienced, Doctors, Chemists, Drugs, or Sundries. "Celer" (110/11), Office of this Paper.

BIRMINGHAM and District.—Retired Chemist is open to take up few good selling lines on commission, or goods of one firm on commission and expenses. 97/8, Office of this Paper.

AS Representative of a good house for South Africa; many years' experience; large sound connection, and well known both in Africa and this country. "F. S." (105/31), Office of this Paper.

ADVERTISE (35) seeks position of trust; 20 years' Wholesale experience; strict disciplinarian; energetic; capable of introducing new methods; up-to-date ideas. 105/22, Office of this Paper.

TRAVELLER; North Wales preferred; experienced, Drugs, Sundries, Photo. Optics; excellent references; good Salesman; tall; good appearance and address; qualified. "Specs," Brynderwan, Carnarvon.

TRAVELLER desires re-engagement by first-class house; has represented a leading London firm for several years with success; highest references; of good address; a conscientious worker and practical man. "Medicus" (110/7), Office of this Paper.

TRAVELLER, energetic, experienced, and successful, requires engagement by good Drug or other house; qualified man; excellent record as Salesman and connection; intimate knowledge Drug and allied trades, and first-rate references. "Radix" (108/4), Office of this Paper.

TO Wholesale Chemists, Mineral-water Manufacturers, etc.—The son of a well-known Chemist desires position of Representative, either at home or Continent; public school education; speaks French; distinct personality; energetic; resourceful; well connected; unquestionable references. "S. G. G.," 122 King's Road, Brighton.

MISCELLANEOUS.

JUST THINK OF IT.

With a little effort on your part, and without any neglect of your other work, you can become a skilled Optician

ABLE TO TEST AND FIT EYES PERFECTLY.

Send for particulars of my Correspondence Course.

E. E. Bamister Practising Optician, BLOXWICH.

MADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, London, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—100 Idris "A" Ordinary, 26s.; 100 Idris "A" Preference, 20s. 9d.; 70 Camwal Preference, 11s. 3d.; 10 Camwal Ordinary, 5s.

WANTED (subject).—100 Camwal Ordinary, 3s. 9d.; 100 Camwal Preference, 10s.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND).—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. **MATTHEWS' CHEMISTS' FITTER**, 14 and 16 MANCHESTER STREET, LIVERPOOL.

SECOND-HAND CHEMIST'S FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO.**, 262 OLD STREET, LONDON, E.C.

SHOP-FITTINGS. SECOND-HAND. FIXTURES.—Chemists requiring additional fittings or opening new premises would find it to their advantage to write us for particulars and photographs; we have a large assortment of second-hand fittings at rock-bottom prices. **WALTER KNOWLES & CO.**, 83 VICTORIA STREET, LIVERPOOL.

TO Chemists and Druggists.—Second-hand 12-ft. Drug Fitting, Drawers, Cupboards, Lockers, Shelving, Mirror, Poison-cup-board, Cornice, 4-ft. Dispensing-screen and Counter, 8-ft. Glass-fronted Serving-counter, under Counter Drawers, 5-ft. Mahogany Bent Plate-glass Counter-case, Perfumery-case and Desk, 6-ft. Wall-case; all high-class condition; the lot £47 10s.; bargain; cheap house for alterations. Window-enclosures, Glass Facias, Stall-plates; estimates free. **H. Mills, Chemists' Complete Shopfitter, Shop-front Builder, Steam Works, 163-5 Old Street, London, E.C.**

SPECIAL LINES IN SHOPFITTINGS.

ONE 7-ft. fixture, with 80 drawers and lockers, shelving, and cornice, £5 10s.; one 14-ft. ditto, with 160 drawers, £10. The fittings of a shop for £27.—1 6-ft. bent-front plate counter-case, with mirror ends, £5 5s.; 1 6-ft. mirror centre dispensing-screen, £4 10s.; 12 doz. shop-rounds, 90s.; 5-ft. wall-case, very good, £5 10s.; 5-ft. glass-fronted counter and dispensing-case, £7 10s.; 10 doz. recess-rounds, job line, £8 10s. Other special lines equally cheap. **R. Tomlinson & Sons, Headquarters for Second-hand Fittings, Bond Street, Birmingham.**

SPECIALITIES for South America.—Messrs. **J. A. Gonzalez & Co.**, Wholesale Druggists, will take the Agency and Representation of first-class Specialities, Medical Appliances, and Sundries. Address, P.O. Box 166, Barranquilla, Colombia, S.A.

OUT OF SIGHT, OUT OF MIND.

In these quiet times out of sight too often means out of mind. People need reminding of the goods you have to sell, and there is no cheaper or better reminder than a neatly printed, well-worded handbill. It brings buyers into your shop and its cost is merely nominal. Send a postcard for samples and prices to

MARTIN NEWBY, 14 New Street, BIRMINGHAM.

GREAT REDUCTIONS PREVIOUS TO STOCKTAKING.—**G** Counters, Counter-cases, Wall-cases, Dispensing-screens, and Drug Fittings; 500 in stock ready for immediate dispatch; drop us a line stating your requirements and we will send you particulars and sketches, at unheard of prices, per return of post. **Philip Joseph & Sons, Ltd.**, 93 Old Street, London, E.C. Established 1826. Telephone 9057 London Wall.

10,000 Handbills (demy 8vo.), assorted tints, good paper, 5s. carriage paid; specimens and full particulars free; we also supply all kinds of advertising matter; illustrated handbills, circulars, booklets, etc., at lowest rates. Send 2 stamps for the "Ad Illustrated," containing hundreds of designs with appropriate wording. **B. Whitworth Hird, Ltd.**, Advertising Specialists, Norwich, and at London.

PAPER.—White Demy Wrapping direct from the factory; specially manufactured for Chemists and Druggists; qualities glazed and unglazed; our paper is ahead of the inferior lines offered by small dealers; a sample ream forwarded immediately upon receipt of P.O. for 3s. 6d.; special price for quantities. **Hancock's Paper Factory**, Hanover Street, Shudehill, Manchester. Telephone 09147. Dept. D. for prompt despatch. Carriage paid on 3 reams.

REFINERY, in London or Hull, is requested to quote for refining Crude Turpentine. Address, "T. P." (106/20), Office of this Paper.

TO OWNERS OF VALUABLE FORMULAE.—Advertiser is prepared to pay liberally for a first-class Formula for a Dyspepsia Cure (used in concentrated drop doses); the formula must be original and unique, answering the requirements of the advertiser. Apply, "F. J. B." c/o Messrs. Evans Sons Lescher & Webb, 60 Bartholomew Close, London.

HAVE YOU BOUGHT IT?

Bernard Slack

That 3d. stamp that, if affixed to a postcard addressed to me, will bring you the free B.S. Booklet, showing how, at an expense of £1 per month, you cannot fail to increase your business 25% per annum at least, as 250 chemists have done before you. Or sample notion, 2/6. Record increase, 85% in 14 months.

319 High Street,
WEST BROMWICH,

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

(From the "Trade-marks Journal," July 31, 1907.)

- "ACHE ACHÉ" neuralgia powders; for medicinal powders. By Mrs. J. Morgan Jones, Rhandir House, Coldstream Street, Llanelly. 287,650.
- "KORFO" for medicinal lozenges. By Black & Co., 81 St. James's Street, Brighton. 292,893.
- "LAXINOL"; for chemicals. By Charles Zimmermann & Co., 9 and 10 St. Mary-at-Hill, London, E.C. 293,566.
- "ALBULACTIN"; for chemicals. By Johann A. Wülfling, 231 Friedrichstrasse, Berlin, Germany. 293,389.
- "BLANCARD"; for a pharmaceutical preparation. By Bertaut-Blancard Frères, 40 Rue Bonaparte, Paris. 293,420.
- "CHESTOIDS"; for all goods in Class 3. By Woolleys, Ltd., Phoenix Mill, Blackburn. 293,424.
- "IPSO," a hand holding a pill; for pills, &c., in Class 3. By Daniel Cumberbirch, 4 Deramore Street, Manchester. 293,706.
- "TRAYSER," device of cactus; for a medicine. By M. E. Trayser, 68-69 Shoe Lane, London, E.C. 293,799.
- "WELL SEENE"; for chemicals. By William Frederick Wells, 20 Upper Baggot Street, Dublin. 293,848.
- "NUSERINE"; for all goods in Class 3. By Woolleys, Ltd., Phoenix Mill, Blackburn. 293,909.
- "BARKOLA"; for a medicine in Class 3. By the Old Fort Chemical Co., 29 Cock Lane, London, E.C. 293,986.
- "PEACHALINE"; for a skin-disease cure. By Annie Peach, 11 St. John's Wood Road, Ryde, Isle of Wight. 294,274.
- "CREOCAMPH"; for a medicine. By Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C. 294,289.
- "BOROXERTIN"; for chemicals. By A. G. für Anilin Fabrikation, an der Treptower Brücke, Berlin, Germany. 294,360.
- "MOORLAND"; for photographic papers. By Harold Arthur Blades, The Central Pharmacy, 1 Stanley Street, Leek, Staffs. 292,534.
- "WEE NIPPER"; for food ingredients. By William Gibson Harrison, White Hart Yard, Newcastle-on-Tyne. 292,963.
- "PERFECTA"; for animal foods. By Perfect Food Co., Ltd., 337 Albany Road, Camberwell, London, S.E. 292,971.
- "MELOX MARVELS"; for food for dogs. By W. G. Clarke & Sons, Anchor Patent Biscuit Works, Thomas Street, Limehouse, London, E. 293,674.
- "HALDAW"; for malt extracts. By Halliwell & Dawson, Ltd., 34 Dale End, Birmingham. 293,801.
- "BANETTE"; for food ingredients. By Pattinson's Banana Fruit Foods, Ltd., 2 Lullington Road, Anerley, London, S.E. 294,032.
- "APOLLINARIS"; for mineral water. By A. G. Apollinaris Brunnen vormals Georg Kreuzberg, Neuenahr, Rhenish Prussia, Germany. 283,030.
- Portrait of Bismarck; for all goods in Class 44. By Bismarck Quelle in Sachsenwald ges. m.o.H., 8 Alstertor, Hamburg, Germany. 293,681.
- "KARLSBADER MINERAL WASSER," round a crowned lion's head; for a natural mineral water. By the Community of the City of Karlsbad, Karlsbad, Austria. 294,112.
- "LEUKOGEN," below diamond device containing letters L K N (diamond device disclaimed); for scouring materials. By Isaac Braithwaite & Son, Britannia Mills, Ann Street, Kendal. 291,379.
- "KUTHRU"; for a lubricating compound. By Robert Miller & Co., 50 Victoria Road, Glasgow. 292,869.
- "ONE & ALL"; for soap in Class 47. By C. Thomas & Bros., Ltd., Broad Plain Soap Works, Bristol. 293,862.
- "LA CHAMINAD," above a bar of music; for perfumery. By Morny Frères, Ltd., 110 New Bond Street, London, W. 293,685.
- "MAY DAY"; for perfumery. By Boots' Pure Drug Co., Ltd., 37 Station Street, Nottingham. 294,259.
- "SPEED"; for metal polishes. By Speed Polish Co., 200 Ewell Road, Surbiton Hill, London, S.W. 292,264.
- "METAL QUEEN"; for a liquid metal polish. By S. G. Bailey & Co., Ltd., Stafford Mills, London Road, Stroud, Gloucestershire. 293,199.

"YE ANCIENT QUIKSILVA"; for a gold and silver polish. By Clifford Stead & Co., 9 Orchard Road, St. Annes-on-Sea, Lancashire. 293,533.

"RENO"; for a wall-paper cleaning composition. By John St. Clair Colson, 83 Lansdowne Road, Holland Park, London, W. 293,910.

(From the "Trade-marks Journal," August 7, 1907.)

"ALGORATE ALGORIC"; for all goods in Class 1. By the Liverpool Borax Co., Ltd., Old Swan Works, Rathbone Road, Old Swan, Liverpool. 294,130, 294,131.

"LIGHTHOUSE BRAND"; for glue, &c. By Henry Sharp & Son, Park Mills, Stanningley Road, Armley, Leeds. 291,720.

"FLEXIBLE COMPOUND"; for a wood-preserving liquid. By the Flexible Compound Co., 3,607 Haverford Avenue, Philadelphia, U.S.A. 292,453.

"RYTOL"; for photographic chemicals. By Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. 294,397.

"VAPORITE"; for chemicals. By Strawsons, 71a Queen Victoria Street, London, E.C. 293,594.

"CARFISCA"; for disinfectants. By the District Chemical Co., Ltd., 1 Fenchurch Avenue, London, E.C. 293,957.

"SORBILINE"; for chemicals. By B. C. Tipper & Son, Veterinary Chemical Works, 43-45 Homer Street, Balsall Heath, Birmingham. 294,532.

"SPIDER"; for goods in Class 3. By W. W. Harrison, 25 Mornington Crescent, Harrogate, Yorkshire. 292,547.

"DYSEPTONE"; for chemicals. By James Potter, 81 Lower Seedley Road, Pendleton, Manchester. 292,783.

"LACTOBACILLINE"; for a medicine; for alimentary goods in Class 42. By "Le Ferment," 77 Rue Denfert-Rochereau, Paris. 290,293, 290,294.

"GLORIA TONIC"; for medicines. By J. A. Smith, 68-69 Shoe Lane, London, E.C. 292,843.

"KAROX"; for medicines. By Edgar Osborne, 41 Corporation Street, Manchester. 293,062.

"ENERGETTES"; for a medicine. By Arthur Couch, 74 The Chase, Clapham Common, London, S.W. 293,540.

"VOILA PILLS"; for pills. By Viola Co., 5 Church Street, Cardiff. 293,341.

"KER-NAK"; for goods in Class 3. By F. W. Boyer, 18 Avenue Hill, Potternewton Park, Leeds. 293,997.

"ALCEMA"; for goods in Class 3. By Wesley Waide Harrison, 25 Mornington Crescent, Harrogate, Yorkshire. 294,046.

"PERHYDROSE"; for chemicals. By E. Merck, 16 Jewry Street, London, E.C. 294,244.

"TIODINECOGNET" on label; for pharmaceutical preparations. By Achille Cognet, 43 Rue de Saintonge, Paris. 294,293.

Autograph of applicants; for gelatines. By W. R. Smith & Son, Tattenhall Road Works, Huxley, near Chester. 293,139, 293,140.

"MASSETTE"; for a massaging appliance. By Thomas Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, London, E.C. 294,009.

"SEPIANA"; for photographic paper. By Ilford, Ltd., Britannia Works, Roden Street, Ilford, E. 294,375.

College Notes.

BATH AND WEST OF ENGLAND COLLEGE OF CHEMISTRY AND PHARMACY.—The book dispensing prize offered by this College for competition among its correspondence students has been awarded to Mr. H. A. Wynn, of Bridgnorth, Salop, after a keen competition.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

School of Pharmacy, 17 Bloomsbury Square, London, W.C.
Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.

South of England College of Pharmacy, 186 Clapham Road, London, S.W.

Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester.

Manchester College of Chemistry, 225A and 227A Oxford Road, Manchester.

Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

WHOLESALE.

ASSISTANT (23), in Wholesale, desires situation in office. "W." 85 Hargrave Park, Highgate, N.

SITUATION wanted, Export, Laboratory, or Wet-counter hand. Address, 118/7, Office of this Paper.

NATIVE of Amsterdam, Analyst's and Chemist's Diploma, wishes appointment in Laboratory or Manufactory; small salary. 114/39, Office of this Paper.

AS Representative, London district, Drugs or Sundries; sound knowledge of trade; good references; moderate salary; aged 30. "T." (118/39), Office of this Paper.

AS Representative of a good house for South Africa; many years' experience; large sound connection, and well known both in Africa and this country. "F. S." (116/22), Office of this Paper.

ADVERTISER (40), with Warehouse, Office, and Travelling experience, desires temporary or permanent London engagement; reliable; good references; moderate salary. 114/31, Office of this Paper.

DRUG Traveller, representing first-class house, is desirous of adding a Side-line; first-class Perfumery house entertained; reliable connections. Apply, "Morphia," c/o Gibbins & Co., Burghley Street Works, Derby.

TRAVELLER desires to represent a good house, either Drugs or Sundries; energetic; resourceful; good connection; England or Continent; speaks French; unquestionable references. "S. G. G." 122 King's Road, Brighton.

TRAVELLER, energetic, experienced, and successful, requires engagement by good Drug or other house; qualified man; excellent record as Salesman and connection; intimate knowledge Drug and allied trades, and first-rate references. "Antim" (118/30), Office of this Paper.

CHEMIST, qualified (28), Wholesale and Retail experience, excellent references, seeks position in Wholesale or works where originality, control of staff, sound Chemical and business ability are required. "Chemist," 51 Oakfield Road, Ilford.

A GENTLEMAN of refinement and education, aged 23, exceptional references, 5 years present firm, well up in pricing Drugs, Sundries, and Patents, correspondence, etc., seeks position of trust with Wholesale firm, either London or Continent; salary required £104. "Rex" (111/16), Office of this Paper.

22; 7 years' all-round Retail and semi-Wholesale experience; understands Drugs, Sundries, Patents, Wines and Spirits, all branches Photography, retouching, Stockkeeping, Manufacturing, packing, and advertising Proprietaries; now learning typewriting, Mineral-water manufacturing; abstainer; could part travel or assist buyer. Kiddy state hours and salary in first instance, 118/14, Office of this Paper.

ADVERTISER seeks position of trust or Traveller in Wholesale Drug house; 16 years' practical experience in Medical Specialities, Drugs, etc.; also thorough knowledge of buying, and has been used to control large staff and supervise all requirements with reference to the management of an up-to-date business; aged 31; all communications treated in strict confidence; can supply references. Address, "Energy" (113/4), Office of this Paper.

MISCELLANEOUS.

DID IT EVER OCCUR TO YOU

that the live, up-to-date Chemist nowadays is equipping his place of business with an Optical Department? Why not do the same? Take my Correspondence Course. Lessons are simple, scientific, exact, and free from technicalities. Particulars from

E. E. Bamister Practising Optician, BLOXWICH.

MACADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, London, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—100 Benger's Food Ordinary, 26s. 9d.; 75 Camwal Preference, 12s. 3d.; 4 £50 4½ per cent. Debentures £42; 120 Idris "A" Ordinary, 56s. 6d., 100 "A" Preference, 20s. 10½d.; 50 International Sponge Importers, 18s. 6d. x.d.; 100 John Knight Ordinary, 21s. x.d.; 10 Vinolia Soap £5 Preference, £4 18s. 9d.; 80 G.B. Kent Preference, 16s. 6d.

WANTED (subject).—100 Camwal Preference, 10s.; 100 Idris Preference, 19s.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND).—Ranges mahogany drawers, with bevelled edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. **MATTHEWS, CHEMISTS' FITTER**, 14 and 16 MANCHESTER STREET, LIVERPOOL.

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SHOP-FITTINGS. SECOND-HAND FIXTURES.—Chemists requiring additional fittings or opening new premises would find it to their advantage to write us for particulars and photographs; we have a large assortment of second-hand fittings at rock-bottom prices. **WALTER KNOWLES & CO.**, 83 VICTORIA STREET, LIVERPOOL.

TO Chemists and Druggists.—Second-hand 12-ft. Drug Fitting, Drawers, Cupboards, Lockers, Shelving, Mirror, Poison-cup-board, Cornice, 4-ft. Dispensing-screen and Counter, 8-ft. Glass-fronted Serving-counter, under Counter Drawers, 5-ft. Mahogany Bent Plate-glass Counter-case, Perfumery-case and Desk, 6-ft. Wall-case; all high-class condition; the lot £47 10s.; bargain; cheap house for alterations, Window-enclosures, Glass Facias, Stall-plates; estimates free. **H. Mills, Chemists' Complete Shopfitter**, Shop-front Builder, Steam Works, 163-5 Old Street, London, E.C.

SPECIAL LINES IN SHOPFITTINGS.

ONE 7-ft. fixture, with 80 drawers and lockers, shelving, and cornice, £5 10s.; plate-glass counter-case, 36 by 18, 35s.; 1 nearly new 12-ft. fixture, drawers, lockers, and shelving, £11 5s.; 12 2-lb. blue ung. jars, labelled, 24s. The fittings of a shop for £27.—1 6-ft. bent-front plate counter-case, with mirror ends, £5 5s.; 1 6-ft. mirror centre dispensing-screen, £4 10s.; 5-ft. wall-case, very good, £5 10s.; 5-ft. glass-fronted counter, 70s.; 10 doz. recess-rounds, job line, £8 10s. Other special lines equally cheap. **R. Tomlinson & Sons**, Headquarters for Second-hand Fittings, Bond Street, Birmingham.

SPECIALITIES for South America.—Messrs. **J. A. Gonzales & Co.**, Wholesale Druggists, will take the Agency and Representation of first-class Specialities, Medical Appliances, and Sundries. Address, P.O. Box 166, Barranquilla, Colombia, S.A.

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MARTIN NEWAY, 14 New Street, BIRMINGHAM.

GREAT REDUCTIONS PREVIOUS TO STOCKTAKING.

G Counters, Counter-cases, Wall-cases, Dispensing-screens, and Drug Fittings; 500 in stock ready for immediate dispatch; drop us a line stating your requirements and we will send you particulars and sketches, at unheard of prices, per return of post. **Philip Joseph & Sons, Ltd.**, 93 Old Street, London, E.C. Established 1826. Telephone 9057 London Wall.

SPECIAL OFFER FOR MAIL ORDER ADVERTISING.—Why not give your leading Speciality a wider publicity? We will place your advertisement (2 lines) in 50 good provincial newspapers for the small sum of 2s. 9d., or 1 inch 16s. 6d.; 3 weeks for the price of 2. Full list, with testimonials, etc., post free, **B. Whitworth Hird, Ltd.**, 6 and 7 Creed Lane, London, E.C.

TO OWNERS OF VALUABLE FORMULÆ.—Advertiser is prepared to pay liberally for a first-class Formula for a Dyspepsia Cure (used in concentrated drop doses); the formula must be original and unique, answering the requirements of the advertiser. Apply, "F. J. B." c/o Messrs. Evans Sons Lescher & Webb, 60 Bartholomew Close, London.

WANTED, 4,000 to 5,000 tons calcined saltcake for cellulose manufacturers, for delivery during 1908. Address offers to the Aktiebolaget Mercantile, Helsingfors, Tammerfors.

THAT IS ALL. Simply send a postcard asking for free B.S. Business-increasing Booklet; then read it and make your decision; let me know that decision, which I shall accept without argument. Or send P.O. 2/6 for one advice, and see if that one advice will not bring you in £1 to £3 within 21 days. I really can't say fairer than this.

Bernard Slack 319 High Street, WEST BROMWICH.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

(From the "Trade-marks Journal," August 7, 1907.)

- "HORSE SHOE BRAND" Lucca olive oil; for Lucca olive oil. By Bossalini & Co., "San Remo," Eghingham Road, Surbiton, Surrey. 285,349.
 - "PRESERVATOR"; for food substances. By Reitmeyer & Co., 63 Crutched Friars, London, E.C. 291,002.
 - "COBANA"; for food substances. By the Watford Manufacturing Co., Ltd., 60 Bunhill Row, London, E.C. 292,383.
 - "ABANA" and "BANA"; for food-substances. By Pattinson's Banana Fruit Foods, Ltd., 2 Lullington Road, Anerley, London, S.E. 294,030, 294,031.
 - "EUGÉNIE"; for chocolate, cocoa, etc. By J. S. Fry & Sons, Ltd., 25 Union Street, Bristol. 294,237.
 - "PATOVA"; for food substances. By Monkhouse & Glasscock, Ltd., 5 Suffolk Place, Snowsfields, London. 294,276.
 - "ZIP"; for food substances. By Monkhouse & Glasscock, Ltd., 5 Suffolk Place, Snowsfields, London. 294,277.
 - "OSORA"; for perfumery. By Parke's Drug Stores, Ltd., 65 Harmond Street, London, N.W. 286,746.
 - "MOMOTARO" (Peach Blossom Perfume); for perfumery. By Bayley & Co., 94 St. Martin's Lane, London, W.C. 292,074.
 - "MARQUEE"; for perfumery. By Breidenbach & Co., 48 Greek Street, Soho Square, London, W. 292,418.
 - "SNOW FOAM"; for perfumery. By Alfred Lancelot Johnson, 13 Church Street, Barnsley, Yorkshire. 293,461.
 - "YBRO"; for tooth-powder. By Maria Theresa Wall, 11 Newtown Avenue, Black Rock, co. Dublin. 293,807.
 - "PATEO"; for a hair-preparation. By George Horton, 28a Bold Street, Liverpool. 293,942.
 - "NORAH CREINA"; for all goods in Class 48. By David Brown & Son, Ltd., Main Street, Donaghmore, Dungannon, co. Tyrone. 292,204.
 - "SHEILA"; for all goods in Class 48. By David Brown & Son, Ltd., Main Street, Donaghmore, Dungannon, co. Tyrone. 294,205.
- Deuce of Clubs with an E in the middle; for polishes. By the Dewee Polish Co., Ltd., 25 Victoria Street, London, S.W. 291,398.

(From the "Trade-marks Journal," August 14, 1907.)

- "VARNOLPA"; for a varnish-paint. By J. T. Gatehouse & Co., 32 Holloway Road, London, N. 292,994.
- "ZINCAPEX"; for paints, colours, etc. By J. Mathews & Co., 42 Hutton Garden, Liverpool. 294,236.
- "ZAMO"; for insecticides. By the Zamo Manufacturing Co., 7 Kingsbury Road, Dalston, London, N.E. 292,343.
- "GREAT MAGNET"; for flycatcher-ribbon. By the Viking Chemical Co., Ltd., 22 Chatham Place, Hackney, London, N.E. 292,351.
- "ADOS"; for insect-bite preventive. By H. Fisher, Glenure, Cirencester Road, Charlton Kings, near Cheltenham. 293,992.
- "RATICIDE"; for goods in Class 2. By Parke, Davis & Co., 111 Queen Victoria Street, London, E.C. 293,541.
- "VAPOFORM"; for a disinfectant. By Harkness, Beaumont & Co., Junction Bridge Works, Edinburgh. 293,897.
- "JORAS"; for disinfectants in Class 2. By J. Rea & Sons, Collingwood Street, Liverpool. 294,066.
- "KOKREILE"; for insect-powder. By E. Hibbert, 83 Warton Street, Lytham, Lancs. 294,119.
- "PETROCID"; for chemicals in Class 2. By the Karsam Soap Co., Ltd., 12 Minories, London, E.C. 294,566.
- "RINGOSE"; for a ringworm-cure. By Mary Ellen Day, 306 Devonshire Road, Forest Hill, London, S.E. 292,123.
- "CHOLOGESTIN"; for chemicals in Class 3. By F. H. Strong Co., 58 Warren Street, New York City, U.S.A. 239,202.
- "VERCOL"; for medicines. By A. Verner, 15 Vernon Street, Bolton. 293,873.
- "KURERHEUMSCI"; for a rheumatism liniment. By J. Geoffrey, 5 Bull Ring, Birmingham. 294,177.
- "ANTIFLAM"; for a liniment for stiff joints. By Harkness, Beaumont & Co., Junction Bridge Works, Edinburgh. 294,190.
- "WYN-KURE"; for a medicine. By W. G. Robinson, 303 Cleethorpes Road, Grimsby. 294,265.

- "OYOFERRIN"; for chemicals. By Barnes & Hille, 24 North Fortieth Street, Philadelphia, U.S.A. 294,574.
- "MERGAL"; for goods in Class 3. By J. D. Riedel, 12 Gerichstrasse, Berlin. 294,614.
- "VITASCOPE"; for an instrument for microscopical examination. By Newton & Co., 3 Fleet Street, London, E.C. 293,481.
- "AEROLITH"; for respiratory apparatus in Class 11. By the Hanseatische Apparatebau Gesellschaft, vorm. L. von Bremen & Co., 35 Rödingsmarkt, Hamburg, Germany. 289,030.
- "VAN HOUTEN"; for cocoa, chocolate, etc., in Class 42. By C. J. Van Houten & Zoon, Weesp, Holland. 292,078.
- Shield device; for essences, essential oils, colourings, etc., for use in beverages, etc., in Classes 42 and 43. By William Hay, Ltd., 18 Anlaby Road, Hull. 293,563, 293,569.
- "EGLIFÉ"; for baking-powder, egg-powder, etc. By F. W. Hampshire & Co., 2 Wood Street, Derby. 293,939.
- "DOM-DOM"; for aerated waters. By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London. 293,727.
- "TATRA" on label over picture of a trumpeter on horseback; for natural mineral waters. By Kaczvinsky & Co., 14 Uj-utca, Budapest, VI. 294,511.
- "VILETA"; for perfumery. By V. Cromack, 381 Park Road, Oldham. 283,929.
- "ERASIVE"; for perfumed toilet-soap. By H. Pilkington & Co., Bridge Street, Church, Lancs. 294,069.
- "ZAT"; for perfumery, etc. By J. H. Beckett, 2 Bristol Avenue, Liscard, Cheshire. 294,315.
- "LOOFAN" and "MADAME"; for goods in Classes 47 and 48. By C. Thomas & Bros., Ltd., Broad Plain Soap-works, Bristol. 294,324, 294,325, 294,326, 294,327.
- "LIXOL"; for metal-polish. By the Lixol Chemical Co., 48 Victoria Road, Hale, Cheshire. 293,950.

(From the "Trade-marks Journal," August 21, 1907.)

- "RELIABLE" below circular device with words "Finest French Glue" and crossed daggers; for chemicals in Class 1. By W. B. Fordham & Sons, Ltd., 36 York Road, King's Cross, London, N. 292,467.
- "WHISTLE BRAND" and device of whistle; for chemicals in Class 1. By P. Germain & Cie., 11 rue du Milieu, Petit-Ivry (Seine), France. 294,697.
- "TYNO"; for chemicals in Class 2. By J. Burrell, 26 Collingwood Street, Newcastle-on-Tyne. 292,404.
- "MICROKIL"; for goods in Class 2. By W. C. V. Harwood, 49 FitzJames Avenue, West Kensington, London, W. 292,709.
- "OZIO"; for goods in Class 2. By the Bootle Chemical Co., Hawthorne Road, Bootle, Liverpool. 293,131.
- "ZYMOCIDE"; for disinfectants in Class 2, and for toilet-articles. By Reed & Carnrick, 42 Germania Avenue, Jersey City, New Jersey, U.S.A. 293,917, 293,918.
- "ANODENOS," "EMBRO," "HUSKO," "PIGGO," and "ELEVO"; for veterinary chemicals. By B. C. Tipper & Son, 43 Homer Street, Balsall Heath, Birmingham. 294,527, 294,528, 294,530, 294,531, 294,570.

College Notes.

WEST OF SCOTLAND COLLEGE OF PHARMACY.—On August 27 the students of this College, accompanied by Mr. T. S. Barrie, F.C.S. (the Principal), made a botanical excursion to Kenmare Hill and district, and obtained many botanical specimens.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

- Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.
- Westminster College of Chemistry and Pharmacy, Ltd., Trinity Square, Borough, S.E.
- London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.
- Liverpool School of Pharmacy, 18 Colquitt Street, Liverpool.
- Birmingham and Midland College of Chemistry and Pharmacy, 45 Newhall Street, Birmingham.
- Leeds College of Pharmacy, Clarendon Road, Leeds.
- Bath and West of England College of Chemistry and Pharmacy, 6 Cleveland Place East, Bath.
- Glasgow School of Pharmacy, 180 West Regent Street, Glasgow.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No Advertisement inserted for less than 6d.

FOR DISPOSAL.

APPARATUS.

ANALYTICAL chemist's scales and weights, complete; suitable for a laboratory; perfect condition; reasonable offer accepted. DAVIS, 4 St. Albans Place, S.W. Tel. 5382 Central.

BOOKS AND PERIODICALS.

CASH offers: "Pharmacopœia," interleaved, Newth's Wills' "Chemistry," Lowson's "Pharmacopœia," Humphrey's "Materia Medica." CLARKE, 42 Castle Street East, W.

DRUGS AND CHEMICALS.

OLEUM eucalypti, 56 lb.; what offers, whole or part? 127/26, Office of this Paper.

QUIN. sulph., overstock, about 25 oz.; what offers? F. ASHTON, 34 Balham Hill, London, S.W.

12 LB. chlorodyne (tr. chlorof. et morph., 1885); 2s. per lb., carriage paid, part or whole. W. PRATT, 1 Westgate, Cleckheaton.

WHAT offers for codeine pure cryst. (Smith's), in original bottles, 1 oz. upwards? R. GIBBINS & Co., LTD., Burghley Street, Derby.

FORMULÆ.

A REAL formula; send 1s. 1d. and get receipt for cream that cures eczema and all skin troubles. CUTCLIFFE, Dawlish.

GREAT satisfaction and big sales result from selling Vir-ung, an antidote for gnat bites, mosquito and insect stings; positively acts like magic; prevents swelling, killing inflammation, and is a good preventer against bites, etc.; a splendid all-round ointment; recipe, 100 labels, 3 doz. tins, and cartons, 3s. 6d. post free; gives 12s. profit; list of other recipes free. TOM BROOKS, Chemist, Hornsey, London, N.

OPTICAL AND PHOTOGRAPHIC.

NO. 4 cartridge kodak, good condition, 50s. ANDREWS, Mount Street, Diss, Norfolk.

NO. 4 Avenue stand camera, half-plate, 2 double dark slides, Beck symmetrical lens, focussing cloth, three-fold stand, £2. DEACON, Chemist, Bradford.

WHAT offers? Optical trial case, nearly complete; 5 guinea punctometer, 25s.; and Fick's "Diseases of the Eye," 37s. 6d.; all new. COOMBE, Chemist, Wolverhampton.

WHAT offers? Ross's 6-in. concentric lens, listed £5 5s.; Ross's rapid symmetrical lens, 8 by 5, listed £5 5s.; both perfect. ARKELL, Chemist, Weston-super-Mare.

TWO ½-plate Frenas, cost £8 17s. 6d., take £2 each; 2 Mem Frenas, cost £2 13s., take £1; Ensign spools to fit Brownie No. 1 and No. 2, and ½-plate, dated April 1908, half-price. MARTIN, Chemist, Southampton.

PROPRIETARY ARTICLES.

18 DOZ. 1s. Ozonia, dozen lots 7s., carriage paid. Apply, 121/13, Office of this Paper.

SURPLUS stock: 4 doz. 13½d. Daisy, 7s. 6d. doz. HENRY CROMPTON, Chemist, Fishpool, Bury.

WHAT offers? 39 1s. 1½d. Eczoline, 11 1s. 1½d. Eczoline tablets, 36 6d. Eczoline soap, 72 2-oz. Armour's prize-winner Liebig's. HOLORAN, Chemist, Retford.

WHAT offers for any, or exchange? 12 1s. 1½d., 2 2s. 9d. Eczoline ointment, 12 1s. 1½d. tablets; 2 1-lb. P.D.'s ext. cotton root bark; 3 1s. 1½d. Nature's pills, 8 1s. 1½d. ointment; 7 2s. 9d. Alencon balsam, 3 4s. 6d.; 3 2s. 9d. male fern vermifuge; 72 1s. Wilson food; ½ lb. morphia hydrochlor. PILLING, 192 Hyde Road, Manchester.

£3 or best offer, carriage paid: 18 1s. 1½d. Seigel's pills, 6 ½-plates Imperial Sovereign, 10 doz. 2d. Kellenzo, 2 2s. 6d. Colin, 3 1s. Colin, 30 4s. Globe polish, 2 2s. Bragg's charcoal, 1 5s. Luddington's oil, 1 4s. Allen's hair-restorer, 11 7½d. Dent's toothache-gum, 2 1s. 1½d. Fenning's lung healers, 1 1s. 1½d. Warner's pills, 2 1s. 1½d. Vitaloids, 3 1s. Brandreth's pills (not coated), 1 1s. Bovinine. MASON'S DRUG-STORES, Oakham.

SHARES.

SHARES for Sale.—See p. 70.

SHOP FITTINGS.

PART fittings, comprising drawers, bottles, window-enclosure, carboys, counters, cases, 2 pair scales, £20; dental implements and artificial teeth suitable for samples in exchange. LACEY, Potter's Hill, Birmingham.

QUANTITY glass measures, unstamped, from 1 drachm to 2 oz.; 2 nests of drawers and 3 pear-shaped carboys, 12 gal.; would accept cash or exchange for good-class furniture. 55 Green Lanes, Ilford.

SHOW carboys, 2 pear-shaped, 2 cylindrical, 3 swan-necked, cut stoppers, handsome specie jar, words, "Homœopathic Pharmacy," gilt dome, mahogany stand; cost £5; best offers. AKHURST, Haswell, Co. Durham.

MISCELLANEOUS.

MICROSCOPIC slides, assorted, 2s. 9d. doz., sample 4 stamps; also mounting-table, 6s.; "Modern Physician," 5 vols., new, at 37s. 6d., 20s. cash. Alverstoke Pharmacy, Gosport.

ONE 8-guinea Optimus microscope, mechanical stage, 1 and ½-in. objectives, 2 eye-pieces, and usual accessories, very little used; "Modern Physician" (Wilson), 5 vols., unsoiled; highest offer. 107/28, Office of this Paper.

WANTED.

FRENCH SCALES, counter, weigh 2 lb. GWYNNE, Chemist, Liscard. DENTAL chair; must be cheap. DENT, 4 Chatsworth Road, Stratford, London.

HAND rotary pill-machine, complete, 2½ grains; perfect condition. McLEAN, Chemist, Netley.

MINOR books, chemists' books, for cash or exchange. GOWEN, Bookseller, Waterloo, Liverpool.

WALL-CASE, about 9 ft., window enclosure; send sketch. 45 Greenhow Street, Sheffield.

DENTAL.—Set hand-burrs. State condition and price, "CHEMIST" (124/33), Office of this Paper.

OUTSIDE lamp for Store Chemist's; cheap; fair condition. "CHEMISTS," 852 Stratford Road, Birmingham.

CHECK-TILL, Gardner's sifter and mixer, copper pan. Send particulars to "Pan" (211/60), Office of this Paper.

DENTAL show-case (small), few show-pieces, drill-engine; must be cheap. Description to "CUTSPIN" (126/16), Office of this Paper.

TUNA, for rheumatism, etc., made by Fels & Co., late of Savoy House, Strand. State quantity and price, Imperial Arcade, 17 Brompton Road, S.W.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

(From the "Trade-marks Journal," August 21, 1907.)

- "TIXOL"; for a tick-destroyer. By W. Cooper & Nephews, Berkhamsted, Herts. 294,750.
- "IMOL"; for goods in Class 3. By Co-operativa Farmaceutica, Piazza Duomo, Milan, Italy. 291,813.
- "TRISAN"; for medicines. By Nicolay & Co., 36 St. Andrew's Hill, London, E.C. 292,881.
- "EMBRO"; for an embrocation. By B. C. Tipper & Son, 43 Homer Street, Balsall Heath, Birmingham. 294,529.
- Label device for "Bellamy's Baby Syrup." By Bellamy & Co., 29 Ludgate Hill, London, E.C. 294,460.
- "AZAXO"; for an ointment. By J. Wolffe, 94 Queen's Road, Brighton. 294,609.
- "RUMATICINE"; for medicinal preparations. By T. G. S. Howe, 4 Mulcaster Crescent, Stanwix, Carlisle. 294,702.
- "VEGETALINE"; ("Vegetal" disclaimed); for a coconut substitute for butter. By Rocca Tassy & de Roux, 80 Boulevard National, Marseilles, France. 286,338.
- "LACTOL"; for a dog-food. By A. F. Sherley & Co., 48 Borough High Street, London, S.E. 290,513.
- "AIRLITE"; for baking-powder. By Revivine, Ltd., 13 Albert Road, Stockton-on-Tees. 292,233.
- "BUNSL"; for a cream-of-tartar substitute and for mineral and aerated waters. By Clayton & Jowett, Ltd., 3 Concert Street, Liverpool. 293,803, 294,595.
- "APOLLINARIS"; for a mineral water. By Actien-Gesellschaft Apollinaris Brunnem vorm. Georg Kreuzberg, Neuenahr, Rhenish Prussia, Germany. 285,030.
- "DOMM"; for mineral and aerated waters. By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London. 293,728.
- Facsimile of handwriting "The Crown Perfumery Co.;" for perfumery. By The Crown Perfumery Co., 108 Fore Street, London, E.C. 291,649.
- "IPERIA"; for all goods in Class 48. By John Knight, Ltd., Silvertown, London, E. 293,280.
- Shield device with monogram surmounted by a crown; for perfumery, etc. By Spurway & Cie., 14 Bartholomew Close, London, E.C. 293,887.
- "GOSBOON"; for goods in Class 48. By D. Brown & Son, Ltd., Main Street, Donaghmore, Dungannon, co. Tyrone, Ireland. 294,203.
- "ZERRA" and picture of galloping zebra; for metal-polish, etc. By Reckitt & Sons, Ltd., Dansom Lane, Hull. 293,224.

(From the "Trade-marks Journal," August 28, 1907.)

- "FASCOE"; for colours in Class 1. By A. H. Davis, Ltd., 41 Oldhall Street, Liverpool. 294,394.
- "COSMO"; for dyes in Class 1. By Pronk, Davis & Co., 22 Harp Lane, Great Tower Street, London, E.C. 294,808.
- "CHEVIOL"; for a veterinary ointment. By Benjamin Beynon, 225 South Lambeth Road, London, S.W. 288,937.
- "PRESERVER" below figure of a girl standing on a floating block, holding a scroll; for all goods in Class 2. By Sandie & Hull, 97 Park Street, Bootle, Lancashire. 294,095.
- "SHELDON'S NEW DISCOVERY"; for a cough-cure. By Sheldon Drug Co., 15 O'Connell Street, Sydney, N.S.W. 288,494.
- "ALYFINOIDS"; for pharmaceutical products in Class 3. By Farbenfabriken vormals Friedrich Bayer & Co., 217 Koenigsstrasse, Elberfeld, Germany. 291,929.
- "SYNERGO"; for all goods in Class 3. By Dr. Alexander von Poehl, Lucka, near Leipzig, Germany. 293,769.
- Design of label; for a medicine. By Dr. Phil Anton Steiner & Schulze, 10 Cellerstrasse, Brunswick, Germany. 291,637.
- "HONEYBROM"; for all goods in Class 3. By F. H. Faulding & Co., 54 Great Tower Street, London, E.C. 293,914.
- "FEFFEMA"; for a medicine. By W. & A. Barritt, 164, 166 Charing Cross Road, London, W.C. 294,144.
- "LUNG-BELL" on two dumbbells forming a cross; for chemicals. By J. E. Garratt, 96 Southwark Street, London, S.E. 294,698.

- "HEWLETT'S 'OWL' BRAND"; for chemicals. By C. J. Hewlett & Son, 35/42 Charlotte Street, Great Eastern Street, London, E.C. 294,461.
- "MONEYBACK"; for a medicine. By G. Storton, 2 Grove Road, Northampton. 294,553.
- "CUTESANA"; for chemicals. By E. W. Wooders, 181 Byron Road, Small Heath, Birmingham. 294,701.
- "ZIP"; for chemicals. By The Zip Co., 177 Haydon's Road, South Wimbledon, London, S.W. 294,716.
- "IMPERIAL"; for photographic sensitised paper. By The Imperial Dry Plate Co., Ltd., Ashford Road, Cricklewood, London, N.W. 294,497.
- "RESILIO"; for imitation indianrubber goods. By The Resilio Co., 20 Abchurch Lane, London, E.C. 293,078.
- "LACTALEXIN"; for milk-products in Class 42. By Dr. Alexander von Poehl, Lucka, near Leipzig, Germany. 289,815.
- "INFANTINA"; for infants' food. By Dr. Theinhardt's Nahrungsmittel Ges. m.b.H., 6 Catherine Court, Seething Lane, London, E.C. 292,819.
- "DOM-DOM" and "DOMM"; for food ingredients. By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London. 293,725, 293,726.
- "PREMIER BRAND" ("Premier" disclaimed); for malt extract, etc., in Class 42. By A. R. Lorimer & Co., 20 and 21 Laurence Lane, London, E.C. 293,826.
- "VIKING RENNET"; for rennet. By The Viking Chemical Co., Ltd., 22 and 22A Chatham Place, Hackney, London, N.E. 294,275.
- "LUVINA"; for aerated beverages (non-alcoholic). By Stanhope Mineral Water Co., Sun Inn, Church Street, Crook, co. Durham. 294,349.
- "BLUE LABEL"; for Kronthal mineral water. By Kronthal Waters, Ltd., 19A Coleman Street, London, E.C. 294,462.
- "SOLVO"; for a paint and varnish remover in Class 47. By A. C. Young & Co., Phoenix Works, Moiety Wharf, Millwall, London, E. 292,249.
- "FLAMBEAU"; for methylated spirit in Class 47. By Jones & Co., 34 Copperfield Road, Bow, London, E. 294,545.
- "BENZETTA"; for soap in Class 47. By Pronk, Davis & Co., 22 Harp Lane, Great Tower Street, London, E.C. 294,743.
- "FRUTOL" on label design; for perfumery. By Lever Bros., Ltd., Port Sunlight, Cheshire. 281,765.
- "OJA"; for all goods in Class 48. By Parfumerie O Ja Ges. m.b.H., Mittelweg 173, Hamburg, Germany. 293,060.
- Picture of a girl called the Oatine Girl; for toilet-preparations in Class 48. By Applied Inventions, Ltd., 30 Denman Street, London Bridge, London, S.E. 294,097.
- "SKENE-MCDONALD HAIR-PRODUCER"; for a hair-producer. By E. S. Macdonald, 61 Back Street, New Mill, Keith, Banffshire. 294,133.
- "PARADISIA"; for perfumery. By Lecaron Fils, 6 Avenue de l'Opéra, Paris. 294,294.
- "NULA"; for a hair-producer. By A. W. Westlake, 5 Victoria Buildings, Paul Street, Kingsdown, Bristol. 294,377.
- "LISTEINE" ("Lister" disclaimed); for perfumery. By Lambert Pharmacal Co., 2101 Locust Street, St. Louis, Missouri, U.S.A. 294,469.
- "AMOROSA"; for a liquid toilet-preparation. By W. Cooper & Nephews, Chemical-works, Ravens Lane, Berkhamsted, Hertfordshire. 294,622.

(From the "Trade-marks Journal," September 4, 1907.)

- "IMPRECNITE"; for chemicals in Classes 1 and 3. By Standard Varnish-works, 23-25 Billiter Street, London, E.C. 293,709, 293,710.
- "ACIFIX"; for photographic chemicals. By J. J. Griffin & Sons, Ltd., Kemble Street, Kingsway, London, W.C. 294,316.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

- Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.
- London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.
- South of England College of Pharmacy, 186 Clapham Road, London, S.W.
- Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester
- Manchester College of Pharmacy, 225A and 227A Oxford Road, Manchester.
- Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

First Trial of the Supplement, so Not Prepared for Splendid Results.

An advertiser (213/70) in this Supplement on August 31 wrote us as follows on September 2:

When advertising surplus stock in the Supplement it is usual to reply to all the applications received in answer? A considerable number contained cash with order, and these, of course, had to be returned; but I could have sold the quantity advertised many times over, and it is a big job to reply to all the applications. As this is the first time I have tried a Supplement advertisement, I was not prepared for the shoal of letters I received.

We have duly replied to the above, which is but one more splendid demonstration that "it pays to pay for advertising in THE CHEMIST AND DRUGGIST SUPPLEMENT because it brings results."

FOR DISPOSAL.

APPARATUS.

BALANCE (Oertling's), 12-in. beam, rider, glass case, gramme and grain weights, mahogany box, £4 10s., cost over £12; contents of small laboratory, apparatus and chemicals, £3, or offer; lists free; seen afternoons. "CHEMIST," 22 Stuart Road, Wimbledon Park.

DRUGS AND CHEMICALS.

SURPLUS stock.—1-lb. bottle of finest essence of bergamot, carriage paid, for 15s. A. F. COLLIS, 11 Abbey Churchyard, Bath.

12 LB. chlorodyne (tr. chlorof. et morph., 1885), 1s. 6d. per lb., carriage paid, part or whole. W. PEAR, 1 Westgate, Cleckheaton.

5½ OZ. cocain. hydrochlor. at 10s. 6d., 8 drachms pilocarpin. nitrate at 5s., ½ gramme homatrop. hydrób. 6s., 61 grains eserín. sulph. at 4d.; best offer for lot; must clear. "CHEMIST," 22 Stuart Road, Wimbledon Park.

FORMULÆ.

DON'T buy "cod-liver oil emulsion with hypophosphites," make it yourself; send 2s. 6d. for my recipe; you can make a lovely white emulsion for 3s. 6d. gallon at present price of oil; made at once without gum or mess, in small or large quantities; very pleasant to take; many Chemists use my recipe; really good line. ARCHER, 160 High Street, Uxbridge.

OPTICAL AND PHOTOGRAPHIC.

24 STAINED anatomical microscopic slides (Watson's), diseased organs; 4s. 6d. doz., 3 for 1s. 6d. SHILLCOCK, Bromley, Kent.

BUSCH'S Bistellar lenses, set of 2, in case, new, unnsd., cost 45s.; Southall's Nordland marine glass, leather case and strap, quite new, cost 21s.; Lancaster ¼-plate 2-guinea camera, 3-fold tripod, 3 d.d. slides, in good condition. Offers for part or whole to "CHEMIST," Llandudno Junction.

PROPRIETARY ARTICLES.

OVERSTOCK.—13½d. Daisy powders, 7s. doz., post free. HENDERSON'S Drug-stores, Pontefract.

WHAT offers or exchange? 1 lb. liq. opii sed. Battley, genuine; 36 4½d., 18 8½d., 6 1s. 4d. Berl skin-cream. BOARDMAN, Chemist, Leigh, Lancs.

OVERSTOCKED.—5 gross Spiral Vampires, 7 gross Snake fly-catchers; 6s. gross, delivered, in ½ or gross lots. MATTHEW, Hoyalnd, Barnsley.

WHAT offers for any, or exchange? 12 1s. 1½d., 2 2s. 9d. Eczoline ointment, 12 1s. 1½d. tablets; 2 1-lb. P.D.'s ext. cotton root bark; 3 1s. 1½d. Nature's pills, 8 1s. 1½d. ointment; 7 2s. 9d. Acacia balsam, 3 4s. 6d.; 5 2s. 9d. male fern vermicifuge; 72 1s. Wilson food; ½ lb. morphia hydrochlor. PILLING, 192 Hyde Road, Manchester.

SHARES.

SHARES for Sale.—See p. 66.

SHOP FITTINGS.

PART fittings, comprising drawers, bottles, window-enclosure, carboys, counters, cases, 2 pair scales, £20. LACEY, Potter's Hill, Birmingham.

WHAT offers? Quantity of gold-labelled shop-rounds, 4-ft. counter-case, 4½-ft. dispensing-screen, pill machine. "CHEMIST," 23 Stockton Road, West Hartlepool.

BENT glass counter-case, 4 ft., fall-down doors, mirror back, splendid condition, £2 15s.; wall-case, nearly new, 7 ft. by 9 ft. 6 in. high, 2 sections, glass doors, shelved throughout, £6 10s. F. W. SMITH, 3 Belgrave Terrace, Leeds.

MISCELLANEOUS.

LARGE emulsifying machine, hand; check-till; 10-gal. gas copper, tinned, with draw-off cock; lozenge plant; platform weighing-machine. Apply, MERCHANT & Co., Southport.

ONE Townsend's Sarsaparilla, 2s. 6d.; one Cuticura Resolvent, 2s. 3d.; 2 Himrod's, 4s.; 4 Javal, 2s.; 2 Edgar's Lotion, 1s. 1½d.; 24 Chinosol, 6d.; 12 Robinson's groats, 2 Celandine, 4 lb. opium Turc.; offers. MATTHEWS, Royston, Herts.

TWO second-hand Veedee vibrators, fair condition; 14 2s. 9d. Munyon's Paw Paw Tonic; 2 2s. 9d. Dahl's Dyspepsia Cakes; 2 lb. hydrarg. iodid. rub.; one pair counter-scales, Maw's illustration 1914; quantity Materiac; what offers? DIXON, Chemist, Halifax.

FIRST reasonable offers. "Pharmaceutical Journals," first two series, bound, 1841 to 1864, 13 vols.; third and fourth series, bound, 1883 to 1899, 21 vols.; also imperfect first series, unbound; "British Colonial Druggist," May 1884 to 1900, 28 vols.; diaries; "Medical Annual," 1892 to 1904; pill-machine, reversible 3, 5 grains; marble slab, 15s.; mahogany case chemical specimens, 10s.; materia medica collection, 200 specimens, own special, 25s.; Burrows's 1-gross mineral-water stand, 10s.; double desk, mahogany, £2; screw copying-press, foolscap folio stand, drawers, £3; 3-gal. carboy, Maw Fig. 1; ½-gal. percolator, in case; old medical books; glass apparatus from old Addington Military College; also large iron mortar on stand. BAXTER, Chemist, Bromley, Kent.

WANTED.

TWO or 3 cwt. blue vitriol. Offers to MATTHEWS, Royston.

GREENISH'S "Materia Medica," latest. HORNIBLOW, Chemist, Worcester.

PLATINUM purchased; prompt remittance. ROWSELL, 11 Crebor Street, Dulwich.

DENTAL implements and artificial teeth samples. LACEY, Potter's Hill, Birmingham.

POWDER sifter and mixer; must be in good condition and cheap. MACHERSON, Chelmsford.

MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.

SECOND-HAND fittings and rounds for small shop; cheap. Apply, MALYN, 84 Mansel Street, Swansea.

PRACTICAL instruction in mechanical dentistry; London. Terms, etc., to 135/39, Office of this Paper.

"PHARMACEUTICAL JOURNAL FORMULARY," last edition. State lowest price, LUDLAM, Chemist, Fleetwood.

MORTAR-COMPOSITION, about 6 pints. State lowest price to McCUMPHA, 372 Westgate Road, Newcastle-on-Tyne.

WALL show-case, splendid mahogany, 9 ft. by 6, 9 divisions; in excellent condition. W. 59/61, New Oxford Street, London.

PLASTER figure, or other good window draw, to advertise cough remedy. "ALPHA," 3 Soudan Road, Battersea Park, S.W.

CAMERA, miniature folding, second-hand, shop-soiled, high-class lens. Lowest price, "Kadok" (135/30), Office of this Paper.

"DISEASES AND REMEDIES," latest edition; "Pharmaceutical Formulas," vols. I. and II. A. FLOOD, 17 Hayes Court, Camberwell New Road, S.E.

SECOND-HAND drug drawers, fittings, utensils, stock; pill and piping machines, mass mixer, coater, polisher, board, cutter for 4-gr. pills; powder mixer, sifter; books, Scoville's "Art of Compounding," Martindale's, Attfield's, etc. JOHNSON, 109 Empire Road, Sheffield.

A PROFITABLE addition to any Chemist's business, Röntgen Rays and High Frequency Treatment; tuition given at our London and Uxbridge businesses, where complete installations can be seen at work. Full particulars from Rayner & Son, Uxbridge.

SPECIALITIES for South America.—Messrs. J. A. Gonzales & Co., Wholesale Druggists, will take the Agency and Representation of first-class Specialities, Medical Appliances, and Sundries. Address, P.O. Box 166, Barranquilla, Colombia, S.A.

OUT OF SIGHT, OUT OF MIND.

In these quiet times out of sight too often means out of mind. People need reminding of the goods you have to sell, and there is no cheaper or better reminder than a neatly printed, well-worded handbill. It brings buyers into your shop and its cost is merely nominal. Send a postcard for samples and prices to

MARTIN NEWAY, 14 New Street, BIRMINGHAM.

TO OWNERS OF VALUABLE FORMULÆ.—Advertiser is prepared to pay liberally for a first-class Formula for a Dyspepsia Cure (used in concentrated drop doses); the formula must be original and unique, answering the requirements of the advertiser. Apply, "F. J. B." c/o Messrs. Evans Sons Lescher & Webb, 60 Bartholomew Close, London.

MCQUEEN'S System of Accounts for Chemists requires no knowledge of Bookkeeping; works out gross and net profits, balance-sheet, and income-tax statement with guaranteed certainty; embraces everything in accountancy that a Chemist can possibly desire; absolute remedy for income-tax worry; particulars free. McQueen & Co., Moat Road, Leicester.

PRICE WILLIAM CLOWES & SONS, Ltd.,
LISTS a rd GILBERT & RIVINGTON,
Experts in the Production of
Price Lists for Chemists, Drug Stores, & c
SEND FOR SAMPLES & PRICES.

Duke Street, Stamford Street, LONDON, S.E.

MALT EXTRACT (& M & O) SPECIALIST willing to advise on manufacture and sales; full knowledge vacuum plants, processes, brewing, &c.; principals only. 142/36, Office of this Paper.

TO APPRENTICES, JUNIORS, &c.—A gentleman prepares pupils for the Preliminary; rapid tuition; individual attention; thorough and efficient exam system; very moderate terms; special attention given to Pharmaceutical students. "C. H." (148/17), Office of this Paper.

PAPER.

White Demy Wrapping direct from the factory; specially manufactured for Chemists and Druggists; qualities glazed and unglazed; our paper is ahead of the inferior lines offered by small dealers; a sample ream forwarded immediately upon receipt of P.O. for 3/6; special price for quantities.

HANCOCK'S PAPER FACTORY, Hanover St., SHUDENHILL, MANCHESTER.

Telephone 69147. —
Dept. D for prompt despatch. Carriage paid on 3 reams.

10,000 Handbills (demy 8vo.), assorted tints, good paper, 5s. carriage paid; specimens and full particulars free; we also supply all kinds of advertising matter: illustrated handbills, circulars, booklets, etc., at lowest rates. Send 2 stamps for the "Ad Illustrated," containing hundreds of designs with appropriate wording. B. Whitworth Hird, Ltd., Advertising Specialists, Norwich, and at London.

**NEXT
GENT,
PLEASE!**

The winter campaign with B.S. clients is just commencing. Sales of Cough Cure, C.L.O. Emulsion, and all winter preps. I am determined to double. As a real Business Increaser (refined notions only) I stand TOP. Specimen advice 2/6, or Booklet FREE. Next gent, please!

Bernard Slack

319 High Street,
WEST BROMWICH

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

(From the "Trade marks Journal," September 4, 1907.)

- "PEEMAL"; for an antiseptic disinfectant. By H. B. Condy, 4 The Leas, Folkestone, Kent. 294,846.
- "KUTONIK"; for medicated soap. By T. F. Bristow & Co., Ltd., 11 St. James's Walk, Clerkenwell, E.C. 293,764.
- "OZONIA"; for chemical substances; for food-stuffs, and for perfumery. By T. Kerfoot & Co., Bardsley Vale Mills, Ashton-under-Lyne, Lancashire. 294,015, 294,016, 294,017.
- "CELMO"; for a medicated tablet. By C. A. Post, 67 Lancaster Gate, London, W. 294,088.
- "LILY" on design of label; for a "head and nerve" powder. By Gibsons, 187 and 189 Gooch Street, Birmingham. 294,476.
- "LEVATON" on a scroll; for a medicine. By R. & L. Atkins & Co., 121 King Street, Ramsgate. 294,492.
- "ODONTOPHENOL"; for an anæsthetic. By the Odontophenol Co., 25 Fountain Street, Manchester. 294,636.
- "CREAM POWDER" and sketch of a safety-pin. For a teething-powder. By R. Blaylock, 229 Normanton Road, Derby. 294,754.
- "KNO-SKA"; for all goods in Class 3, except ointment. By H. R. Hulbert, 74 Western Road, Brighton. 294,788.
- "FICOLAX"; for a medicine. By Davy Hill & Hodgkinson, Ltd., 64 Park Street, Southwark, Surrey. 294,814.
- "OQUIT"; for a medicine. By John Carnaby, 72 Park Road, Dulwich, London, S.E. 295,044.
- "ULFILUX"; for photographic lenses. By J. J. Griffin & Sons, Ltd., Kemble Street, Kingsway, London, W.C. 294,317.

College Notes.

SOUTH LONDON (MUTER'S) SCHOOL OF PHARMACY.—The examination for the Muter open entrance scholarship was held on September 5 and 6, and as a result Mr. R. A. Rowlands, Halifax, has obtained it. The scholarship entitles the holder to a year's free tuition in the College. Mr. Rowlands is an assistant with Mr. Gibson Q. Dixon, chemist, the Corn Market, Halifax, and his success has given much satisfaction locally.

GLASGOW SCHOOL OF PHARMACY.—Evening classes for the Pharmaceutical Preliminary examinations, conducted by Mr. Malcolm MacKinnon, M.A., will commence on Thursday, September 19, at 180 West Regent Street.

SCHOOL OF PHARMACY, 17 Bloomsbury Square, London, W.C. The session of this school will be opened on Monday, September 30, when an address will be given at three o'clock by Professor Raphael Meldola, F.R.S., on "The Scientific Training of a Pharmacist."



WHERE TO STUDY.

The following educational institutions are advertising in this issue:

- School of Pharmacy, 17 Bloomsbury Square, London, W.C.
- Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.
- Westminster College of Chemistry and Pharmacy, Ltd., Trinity Square, Borough, S.E.
- London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.
- Liverpool School of Pharmacy, 18 Colquitt Street, Liverpool.
- Birmingham and Midland College of Chemistry and Pharmacy, 45 Newhall Street, Birmingham.
- Leeds College of Pharmacy, Clarendon Road, Leeds.
- Bath and West of England College of Chemistry and Pharmacy, 6 Cleveland Place East, Bath.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

FOR DISPOSAL.

APPARATUS.

TABLET machine for dispensing-counter; makes 4 sizes perfect tablets; 1,000 per hour guaranteed; perfect condition; 20s. 6d. 140/9, Office of this Paper.

PFELEDERER mixing-machine, capacity about 3 lb.; Pindar's rotary pill-cutter, 24 × 5 grain; and piping-press; all good condition; what offers, cash or exchange? Want good typewriter, 5-ft. dispensing counter. JONES, Chemist, Burnham, Bucks.

BOOKS AND PERIODICALS.

"**ESCULENT** Funguses of Britain," by Dr. Badham. W. H. WAIN, Kirby Moorside, Yorks.

"**EDINBURGH** Practice of Midwifery," illustrated, 1803; offers. ROBINSON, 2 North Street, Leek.

OFFERS.—Dr. Andrew Wilson's "Modern Physician," just received from publishers; 5 volumes; cost 7s. 6d. volume; cash or exchange. CUTCLIFFE, Dawlish.

DRUGS AND CHEMICALS.

FOUR 1-lb. opium elect., original packages, 22s. lb., post paid. McKINNEL, Chemist, Northampton.

ESSENCE lemon, last season's, 20 lb.; what offers, whole or part? J. F. TODD, 196 Dalton Road, Barrow-in-Furness.

BEST offers, 1½ cwt. potass. chlor., 10 cwt. honey, 6 Winchester's chemical food. SOWERBY, North Street, Middlesbrough.

SURPLUS stock.—1 lb. bottle of finest essence of bergamot, carriage paid, for 15s. A. F. COLLIS, 11 Abbey Churchyard, Bath.

FORMULÆ.

DON'T buy "cod-liver oil emulsion with hypophosphites," make it yourself; send 2s. 6d. for my recipe; you can make a lovely white emulsion for 3s. 6d. gallon at present price of oil; made at once without gum or mess, in small or large quantities; very pleasant to take; many Chemists use my recipe; really good line. ARCHER, 160 High Street, Uxbridge.

OPTICAL AND PHOTOGRAPHIC.

STUDENT'S microscope, one eye-piece, 3 powers, rotatory diaphragm, fine adjustment, in mahogany case; 30s. GREEN, Lavenham.

"**KODAK**" No. 3, F.P.K., in leather case; No. 1 "Panorama" ditto, pictures 7 by 2½, in strong leather case; Kodak (cartridge No. 4) film, 5 by 4, also adapter for glass plates, in stout leather case; what offers? HAWKES, Chemist, Stratford-on-Avon.

PROPRIETARY ARTICLES.

CHEMISTS' emulsion, 2 9s. Oatine, both sizes. Best price to WILLIAMS, Bournemouth.

OVERSTOCKED.—Wasp fly-bands, one gross, carriage paid, for 6s. 9d. 138/40, Office of this Paper.

THREE doz. 1s. size Munyon's cures, clean; good assortment; 12s. GEO. BENNETT, Chemist, Stockport.

SHARES.

SHARES for Sale.—See p. 64.

SHOP FITTINGS.

WALL show-case, splendid mahogany, 9 ft. by 6, 9 divisions; in excellent condition. "W." 59/61, New Oxford Street, London.

ONE 23-in. bent-glass counter-case, 1 tooth-brush ditto, perfume case and desk, shop chairs, 13-ft. roller blind by Dean, 11-ft. run of mahogany drug drawers, York glass knobs and labels; suit beginner. FITT, Norwich.

MISCELLANEOUS.

SIX antique pharmacy pots, labelled for syrups; 2s. each. CHALMERS, 12 Sidbury, Worcester.

CHEMIST'S business cycle, new condition, carrier and name-board complete, 70s. CULLEN, Chemist, Norwich.

DENTAL show-case (13 by 11), with specimens in gold, platinum, and vulcanite; also Harris's "Dentistry," new, cost 35s.; what offers? AIRTH, Chemist, Barnard Castle.

FOR sale, cheap, dental forceps, trays, stoppers, medical and chemistry books, set midwifery forceps, bottle ol. menthae pip. Hotchkiss, 8s. ARMITAGE, Raydon Street, Highgate.

ONE 8-guinea Optimus microscope, mechanical stage, 1 and ¼ in. objectives, 2 eye-pieces, and usual accessories, very little used; "Modern Physician" (Wilson), 5 vols., unsoiled; highest offer. 146/22, Office of this Paper.

"**B.P.**," 1898, 6s.; "Pharmaceutical Formulas," 1902, 5s. 6d.; "Art of Dispensing," 1890, 1s. 6d.; few pharmacy books cheap; condition new; Maw's 1917 brass dispensing-scales, 15s.; aluminium weights, ½ gr. to 2 dr., stamped, 5s. 6d.; 5-grain pill-machine, 7s. 6d.; or offers. BULLOCK, Optician, Colchester.

"**PHARMACEUTICAL** Journals," first two series, bound, 1841 to 1864, 13 vols.; third and fourth series, bound, 1883 to 1899, 21 vols.; also imperfect first series, unbound; "British Colonial Druggist," May 1884 to 1900, 28 vols.; diaries; "Medical Annual," 1892 to 1904; pill-machine, reversible 3, 5 grains; marble slab, 15s.; mahogany case chemical specimens, 10s.; materia medica collection, 200 specimens, own special, 25s.; Burrows's 1-gross mineral-water stand, 10s.; double desk, mahogany, £2; screw copying-press, foolscap folio stand, drawers, £3; 3-gal. carboy, Maw Fig. 1; ½-gal. percolator, in case; old medical books; glass apparatus from old Addington Military College; also large iron mortar ou stand. BAXTER, Chemist, Bromley, Kent.

WANTED.

"**C. & D.**" for January 3, 1903. NATIONAL SOCIETY, 19 Great Peter Street, S.W.

CANWAL debenture or preference shares. State lowest price, 141/4, Office of this Paper.

SECOND-HAND tablet-machine. Price and description to COMINS, Chemist, Carshalton.

FEW good shares. Send full particulars to "SHARES" (220/57), Office of this Paper.

CHEMICALS and apparatus for beginning small laboratory; about £3. TANNER, Rhymney.

OXYGEN cylinders. State size, condition, and lowest price, MANSON & RIDER, Waterloo, Liverpool.

VULCANISER and workroom accessories. Particulars and price to 145/12, Office of this Paper.

MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.

SHOP-ROUNDS, jars, carboys, scales, &c.; good condition. "S.," 113 Waldegrave Road, Brighton.

RECESS bottles, ointment jars, check-till, weighing-machine, scales, mortar, etc. 145/21, Office of this Paper.

"**ADVANCED** Inorganic Chemistry," recent edition. GOLING, Farnham St. Martin, Bury St. Edmunds.

TWO pairs of second-hand decorated show-jars, with covers and stands. Offers to 143/10, Office of this Paper.

4-GRAIN pill-machine, 15-grain suppository mould, latest Martindale, mortars and pestles. Condition and prices to WHITE, Chemist, Beaconsfield.

ADDRESSES WANTED.


PRESENT address of J. V. Kissell. FITT, Norwich.

PACKERS of wheat-dressing with druggist's own name; price, GRIFFITH, Chichester.

PRESENT address of Mr. W. Linnell Ingham, late of Epsom. 220/5, Office of this Paper.

Prescription Problem.

The subjoined prescription is French and presents few difficulties to those who are familiar with Continental pharmacy:

Thermis Mineral
30 centigr
Syr d'hyppre - 30 gr
Infusion de Pierre Terrate
120 gr
3-8 a
Une cuillerée à soupe
4 fois by deus
heures
Mars au 6 février


We shall again allocate three crowns as prizes for transcriptions and English translations of the above. Replies must be on postcards, and they should be received by us not later than Thursday, September 26. Our adjudicator's award will be final.

THE facsimile printed on page 404 of our issue of September 7 was not at all difficult to transcribe, it being as follows:—

R. Liq hyd perchlor ... 3ij.
 Liq morph mur ... 3ss.
 Syr zingib et glycerin ... aa 3iss.
 Aq ad ... 3iv.

M

Sg.: Two teaspoonfuls evy 4 hrs if reqd.

In order to select three prize-winners from among hundreds who sent us postcard transcriptions, every little point (some probably trivial) had to be taken, finally, into consideration. On this occasion 60 per cent. of the competitors were outclassed owing to an error of some kind. The remaining 40 per cent. had to be judged by their attention to the peculiarities of the prescription and faithful repetition of these. With this as a basis we find that the three crowns offered as prizes have been won by the following:

London and Home Counties.—Mr. A. J. Fairlee, 71 Laverder Hill, London, S.W.

English Provinces and Wales.—Mr. R. Simmons, c/o Mr. J. Hinton Lake, Ph.C., Sidmouth.

Scotland, Ireland, and the Continent.—Mr. James Lennox, 6 Queen Margaret Place, Kelvininside, N. Glasgow.

These gentlemen are the only three competitors who transcribed the script absolutely as above. All the others differed on one or more points, although, as already stated, 40 per cent. were correct as to ingredients and dosage, but were incorrect in some literal respect.

In regard to errors of fact in the transcriptions we note the following:

Syr Zingib et Glycerin

This line received a variety of renderings, e.g.:

Syr. zingib. officinalis 3iss.
 Syr. zingiberis et mori aa 3iss.
 Syr. zingib. et rosæ aa. 3iss.
 Syr. zingib. apper. ar. 3iss.
 Syr. zingib. et glucosi aa. 3iss.
 Syr. zingib. et rhei aa 3iss.
 Syr. zingib. officinar. 3iss.
 Syr. zingib. et papaveris aa. 3iss.
 Syr. zingib. et ipecac. aa. 3iss.
 Syr. zingib. et f. per. aa. 3iss.
 Syr. zingib. et aurant. aa. 3iss.
 Syr. zingib. et pruni aa. 3iss.
 Syr. zingib.
 Aq. calcis aa. 3iss.
 Syrup. ginger (African) 1½ drachms
 Syr. zingib.
 Aq. carui aa. 3iss.
 Syr. zingiberis et menthæ aa. 3iss.

The directions were a puzzle to some, especially "if reqd." Many competitors regarded this as a signature, and "B. P. G.," "F. P. G.," "S. P. G.," "G. P. P.," and other initials were given for it. The doctor signed the prescription, but the signature was not reproduced in the facsimile. The errors in transcribing the directions include the following:

Two teaspoonfuls every 4 hours ex aq. sd.
 One to two teaspoonfuls every four hours if required.
 Two teaspoonfuls every 4 hours in half a glass of water.
 Two teaspoonfuls every four hours in water.
 Two teaspoonfuls ex aq. 4 hours if required.
 Two teaspoonfuls every 4 hours in 3ss. aqua.
 Two teaspoonfuls every 3 or 4 hours.
 Two teaspoonfuls every 4tis (horis).

These are all inexcusable errors, but one of the purposes of these competitions is to foster care in reading prescriptions, and we indicate the errors so that those directly interested may compare with the original.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Wednesday, September 25.

Manchester Pharmaceutical Association. Chemical Club, Victoria Hotel, at 7 p.m. Business: To consider correspondence with Mr. Richard Bremridge relative to local organisation: to elect a delegate to the local organisation meeting to be held in Manchester in October; and to consider the recommendation of gentlemen as divisional secretaries.

Thursday, September 26.

Brighton Association of Pharmacy. A.B.C. Rooms, 58 King's Road. Annual meeting at 9 p.m.

Barnsley and District Chemists' Association. Royal Hotel, Barnsley, at 7.30 p.m. Paper by Mr. J. B. Pater, Sheffield, "Half an Hour at the Dispensing-counter."

Friday, September 27.

Blackpool and Fylde Chemists' Association. Palatine Hotel, at 3 p.m. Business: Appointment of divisional secretary and winter closing hours.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.
 London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.
 South of England College of Pharmacy, 186 Clapham Road, London, S.W.
 Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester
 Manchester College of Chemistry, 225A and 227A Oxford Road, Manchester.
 Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.
 North of England College of Chemistry and Pharmacy, 55 Northumberland Street, Newcastle-on-Tyne.
 City of London College, White Street and Ropemaker Street, E.C.
 Goldsmiths' College, New Cross, S.E.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their *bona-fides*.

We again call the attention of those who use this column for the sale or purchase of goods to the desirability of using our Deposit System. Some forward goods before they receive money for them, and others forward money to advertisers before they have even seen the goods. Disappointment in such circumstances is bound to happen now and then, and it is to prevent this, as well as to check fraud, that our Deposit System was instituted.

The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 6d. is charged by us on any transaction of 3l. or less, and 1s. if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank, Ltd."

FOR DISPOSAL.

APPARATUS.

GARDINER'S mixing-machine, not sifter; cost £28; 1 cwt. capacity power. "R." Reform Works, Dudley.
NO. 500 water-analysis case; cost £2 2s.; price £1; complete; never used. BOWLING, Chemist, Pembroke Dock.

BOOKS AND PERIODICALS.

OFFERS desired for Dr. Andrew Wilson's "Modern Physician," as received from publishers, 5 vols., cost 7s. 6d. vol.; also "Pharmacopædia." SMITH, Chemist, Acton Hill, W.

DRUGS AND CHEMICALS.

SURPLUS Stock.—8 lb. opium Turc. elect; what offers? DOBSON, Chemist, Skipton.
ONE CWT. oleum eucalypti glob. B.P.; what offers, whole or part? STEAD, 411 Edgware Road, W.
BUTYL-CHLOR. HYD.; overstocked, 4-oz. bottles, 2s. 9d. each, post free. 227/5, Office of this Paper.
12 LB. chlorodyne, 2s. per lb., carriage paid, part or whole; cash or exchange. W. PRATT, 1 Westgate, Cleckheaton.
OVERSTOCKED.—Oil lemon, B.P. Lofresco brand, 1907, 7 lb. for 5s. 6d., lb. for 6s.; wasp-fly bands, $\frac{1}{2}$ or 1 gross at 6s.; all carriage paid for cash. JONES, Chemist, Houghton-le-Spring, Durham.

PROPRIETARY ARTICLES.

DEMUTH'S castor-oil powder, both small and large size, overstocked; will accept half-price, subject to being unsold. LENNON, 54 Queen Elizabeth Street, S.E.
TWO each Horn's Acesma, Eau Horn, beard fluid; 1 Tricopherus; 1 Emulsine; 2 Kaloderma, 4s. 6d., 1 2s. 6d.; 1 Churchill's syrups, 4s. 6d.; 1 James' fever powder, 11s.; 3 2s. 6d. Jacobs oil; 9 1s. Bishop's Vaseline; 2 2s. ditto; in good order; 1 Jolly's Duchess pills, 1s. 1½d., soiled; what offers, whole or part? CULBERT, Connswater, Belfast.

SHARES.

SHARES for Sale.—See p. 70.

SHOP FITTINGS.

GLASS case, mirror in centre, 2 by 1 yd., £3 3s.; sloping desk with drawer, 25s. BLAUD, c/o Messrs. Crossfield, Arnside, via Carnforth.
PART fittings, comprising drawers, bottles, window-enclosure, carboys, counters, cases, 2 pair scales, £20. LACEY, Potter's Hill, Birmingham.
CHEAP.—Dispensing counter and screen, central mirror; 2 top perfume-cases, mirror back; 2 floor-cases; also 3 carboys for window; 2 specie jars and outside lamp. 156/42, Office of this Paper.

MISCELLANEOUS.

GARDNER'S cabinet patent combined sifter and mixer, weighing-machine, check-till. Apply, MERCHANT, Southport.
FOR sale, 2 6-gal. show carboys, pear-shape, cut stoppers, on handsome faience stands; also $\frac{1}{2}$ -gal. wrought-iron tincture-press; what offers? LEWIS & COOPER, Northallerton.
GRAMAPHONE disc records, 7 5s., 4 2s. 6d.; Odeon, 2 5s., 1 2s. 6d.; G. & T. 4 2s.; Zenophone, as new, half-price; or 30s. lot, carriage paid. NICHOLLS, c/o Carter, Chemist, Penzance.
COMPLETE dental equipment, including hydraulic-chair, patent arms, beautiful mahogany cabinet, 3 lathes, vulcaniser, and instruments complete; also desk; can be viewed by appointment. "A. V.," 31 St. Philip's Road, Dalston.
WHAT offers?—Plaster figure, old woman, cost 25s.; York glass 1-gal. percolator; Maw's double-action 5 pint glass emulsifier; 13-in. (inside) marble mortar (no pestle), all perfect; 1 12-oz. dragon's blood in tears, 6s. 1b., 10s. lot; 7 doz. Williams's small sticks, 2s. doz., post free. M. FIRTH, North Parade, Bradford.

WANTED.

LARGE old mortar and heavy pestle. TANNER, Old Charlton, S.E.
PLATINUM purchased; prompt remittance. ROWSELL, 11 Crebor Street, Dulwich.
FEW good shares. Send full particulars to "SHARES" (153/36), Office of this Paper.
MODERN shop-fittings for medium-size shop. "E. S.," 184 Dalston Lane, Dalston, N.E.
"ESCULENT Funguses of Britain," by Dr. Badham. W. H. WAIN, Kirby Moorside, Yorks.
MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.
COMPLETE fittings for small shop; must be cheap and in good condition. 150/26, Office of this Paper.
CASH-REGISTER or good till; surplus stock. Send full particulars to "Cash" (153/63), Office of this Paper.
GOOD second-hand dental case; also specimens. Give full description. WM. BRUCE, Chemist, Larkhall, N.B.
OUTSIDE lamp for Store Chemists, in good condition. Particulars, "Chemists," 852 Stratford Road, Birmingham.
200 or 300 SHOP-ROUNDS, also ointment-jars, scales, carboys, etc.; good condition. "S.," 113 Waldegrave Road, Brighton.
OPTICAL trial-case, in first-class condition. State specification, maker, give fig. in maker's catalogue, JONES, Chemist, Waterford.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Friday, September 27.

Tunbridge Wells Chemists' Association, 33 Mount Pleasant, at 9 P.M. Discussion on Poison Schedule.

Monday, September 30.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 3 P.M. Opening of the session of the School of Pharmacy and presentation of the Hanbury medal. Inaugural address by Professor Raphael Meldola, F.R.S.

Tuesday, October 1.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin. Reopening of schools.

Sheffield Pharmaceutical and Chemical Society, Builder's Exchange, Cross Burgess Street, at the usual hour. Further consideration of Buying Section.

Wednesday, October 2.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 P.M. Council-meeting.

Stockport Chemists' Association, County Restaurant, at 9 P.M. Ordinary meeting.

Thursday, October 3.

Great Yarmouth Pharmaceutical Association, 156 King Street, at 8 P.M. Monthly meeting.

Friday, October 4.

London Chamber of Commerce, Oxford Court, E.C. Chemical Trade Section at 2.30 P.M., to consider (1) Regulations affecting patent medicines in Australia, and (2) Australian duties on patent medicines and bottles.

India and the East.

(From "C. & D." Correspondents.)

PERSONAL.—Mr. R. S. Rae, of the Apothecaries' Hall, Rangoon, is on his way home, travelling by s.s. *Martaban*.—Mr. A. S. Griffin, of Messrs. E. M. de Souza & Co., of Rangoon, has been down with enteric fever, but is convalescent and is recuperating at an up-country health resort.

PANTHER IN POSSESSION.—A chemist's shop in the Colootoolah section of Calcutta was visited by a panther the other day. The undesirable customer made a dramatic entrance by springing on to a man who was washing up some pots, and then made its exit through the dispensary and found refuge in a warehouse at the rear. Finally it was shot through the head by a gentleman who esconced himself in the dispensary and fired the fatal shot as the pharmacy-loving animal endeavoured to return to the shop, scared by the clatter of the tin pans. Four or five men are lying in hospital in a precarious condition as a result of injuries received.

SMUGGLING.—At Rangoon on August 30, Sri Ram Ki Nu was sentenced to one year's rigorous imprisonment for being in illegal possession of twenty-seven bottles, each containing 1 oz. of morphine.—A woman named Machua Bagan, a well-known illicit dealer in cocaine, went to the Superintendent of the Excise Preventive Force at Calcutta and gave particulars of how he (the superintendent) might catch a former lover of hers—the brother of her present lover—importing cocaine illicitly. Instead of arresting the discarded lover, the superintendent looked up the lady and her new amour, and she was subsequently fined Rs. 25 for illicit importation, and her accomplice Rs. 200.

At the Counter.

A Staffordshire chemist (168/35), in sending us a varied lot of orders, designates them "native 'whit,' brought about by the increased legislation in education. We are very dead-alive here, and such tit-bits are acceptable to relieve the monotony":

1 <i>l.</i> Roderick of heather	1 penny worth of genshing root
(chloric ether!)	
1 Hartscorne	1 penny worth of iky pikey
1 Amoniae	1 <i>l.</i> landver water
1 Friars Ballstone	1 <i>l.</i> colideline
1 Athap Dilldock	Sturgens (nasturtiums)
Confectany of saner	Balsam Pivey, Prew, Oils of
hopperdildick 1 <i>l.</i>	Juliper, Sweet Nighter, 1
3 p worth Silatycalr of Soda	pennyworth of each
(Salicylate)	
Happyhildoe	1 penny worth of Nothing
Balsam of icopipi	(Mel Boracis!)
	page of wood cocks pills

FRIENDS ACROSS THE SEAS.

ANOTHER batch of facsimile letters to wholesalers from guileless gentlemen in various out-of-the-way corners of the earth is given here. The first two were for Messrs. Parke, Davis & Co. They read as follow:

9 Mai 1903.

New York.

My dear friend,—I hope that you are well now, and then pleased of you that you send for me A catalogue of all the goods that you have. I am sure that I will buy very things of you if you send for me the catalogue I will send for you money and you must send the goods with post for me, now I finished my letter.

Address—

Persia, Tehran, Saray Hadjie seyd Mohsen in the shop of Hadjie Mirza Abdollah for M. Aga seyd Hassan bazaz, Tehran.

From William Haffond, Upper town, Sal Pod.

Salt Pond 16 May 1903.

To Parke Davis, London.

Dear sir,—Having been been highly recomend to me by a certain friend of mine as I have many to do I have just gained the opportunity to write you to send me your samples to see and select. I am yours truly,

WILLIAM HAFFOND,
Salt Pond.



The next is a postcard to Mr. A. C. Wootton, of Trinity Square, Tower Hill, E.C. It runs:

9-4-1907.

Dear Sir,—Hearing that your are the best merchants in the world and also about your great sampl which is called Calox which you have send it to many boys in our country I hope that you will kindly send it to me soon and you have the honour.

Yours very truly,

Saad Abraham.

Opposite Protestant Church, Assyut, Egypt.

Please send me your windsor, scribaors, or pearsons magazine to agree in them.

Messrs. John Richardson & Co., Leicester, Ltd., received this specimen. It differs slightly, as Mr. H. N. Stroud (secretary of the company) points out from those usually sent by the ubiquitous foreigner, inasmuch as it omits the usual request for a full line of samples:

Pran Pram Gold West Africa 15 March 1903.

Having heard of your good recommendation from friends of mine *re* best seen in yours catalogue I beg most respectfully to send me price-list and catalogue to enable me to order somethings favow you hope you do me favow of same, I have rubbar cocoa and more over kindly things an I hope to be your good friends and great Marchants I hope and oblige.

Yours truly good friend,

I. W. G. N. M. Eseq.,
A. No. 1 Co.
Gold Cost West Africa.

(Ishmael W. Gbaetorh. N. Magnusen Eseq.)

The last is the translation of a Dutch letter sent to Messrs. Lennon, Ltd., of Cape Town. It speaks for itself:

Taking the advice of a friend I have the honour of addressing this letter to you in the hope of your being able to give me some assistance my query is with regard to some stuff for making love to a girl with whom I am in love and who declines to marry me. If you can help me I shall be glad. Please write me whether you have it, the price of it, whether it can be sent per post and how it is to be used. I have seen somewhere in the newspaper that you have the best apothecary in South Africa I you will receive my gratitude if you can send me something so that I may win the girl's heart for ever. Doubtless the omnipotent apotheker was able to forward the suit of the ardent Boer by means of an appropriate love-potion.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their *bona-fides*.

We again call the attention of those who use this column for the sale or purchase of goods to the desirability of using our Deposit System. Some forward goods before they receive money for them, and others forward money to advertisers before they have even seen the goods. Disappointment in such circumstances is bound to happen now and then, and it is to prevent this, as well as to check fraud, that our Deposit System was instituted.

The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 6d. is charged by us on any transaction of 3l. or less, and 1s. if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank, Ltd."

FOR DISPOSAL.

APPARATUS.

GARDINER'S mixing-machine, not sifter; cost £28; 1 cwt. capacity power. "R," Reform Works, Dudley.

BOOKS AND PERIODICALS.

"MODERN Physician," Wilson's, 5 vols., unsoiled. 162/24, Office of this Paper.

DRUGS AND CHEMICALS.

$\frac{3}{4}$ OZ. otto rose, 10s.; 1 oz. migranine, 2s. 6d.; $\frac{1}{4}$ oz. veronal, 4s. RICHARDSON, 65 Willoughby Street, Nottingham.
SURPLUS Stock.—12 lb. chlorodyne (Squire's formula), 2s. per lb., carriage paid. W. PRATT, 1 Westgate, Cleckheaton.
SURPLUS stock.—8 fluid oz. finest ess. bergamot, for 7s. 6d., or 1 lb. bottle for 15s., carriage paid. A. F. COLLIS, 11 Abbey Churchyard, Bath.

FORMULÆ.

RECIPE, 1s., for preventing dogs depositing urine, etc., on shop door-steps and corners. Write, "M.P.S.," 121 Roman Road, South Shields.

OPTICAL AND PHOTOGRAPHIC.

STUDENT'S microscope, in case, as new, 20s.; cost £3. RICHARDSON, 65 Willoughby Street, Nottingham.
NO. 2 Frena, cost £8 17s. 6d., take 30s.; Ensign spools, 6s.; quarter-plate, 1s. 6d., 6s. doz. MARTIN, Chemist, Southampton.
MICROSCOPE, mahogany case, accessories, 8 powers, 70s.; offers invited. J. C. LONG, 10 Westbourne Arcade, Bournemouth.
THREE 38 mm. Euryscop lenses and 3 projection-lenses, by Voigtlaender; one pair Ross prism Binoculars, mag. \times 8; all brand new; what offers? WILSON, Chemist, Guildford.

PROPRIETARY ARTICLES.

$\frac{1}{2}$ DOZ. each Euthymol tooth-paste, jelly, and shaving-cream, 4s. 6d.; $\frac{1}{2}$ doz. 1s. 1 $\frac{1}{2}$ d. bromo seltzer, 4s.; post paid. RICHARDSON, 65 Willoughby Street, Nottingham.
EXCHANGE, 5 gaseous fluid, 1 Rooke's elixir (4s. 6d.), 1 Godfrey's extract (2s. 9d.), 1 Café Zylak, 3 Clayton's pills, 1 Holloway's pills (2s. 9d.), 2 Purgen, 1 Pazzo ointment, 2 toilet sanitas, 1 L.B.Q. tablets, 12 Racia, 1 Miles Doughty's loz.—for Tatcho, or offer. 159/33, Office of this Paper.

SHARES.

SHARES for Sale.—See p. 88.

SHOP FITTINGS.

UPRIGHT counter brush-case, opens at back, 8s. 6d. "IRELAND" (158/39), Office of this Paper.
LAMPS (outside), 3 handsome pear-shaped, 2 semi-opal, 1 ruby, engraved. MCKEE, Chemist, Acton, W.
PART fittings, comprising drawers, counters, cases, window-enclosure, carboys, etc. LACEY, Potters Hill, Birmingham.
FOR Sale.—6 ft. mahogany dispensing-case, Nebel's make, as fig. 2,728 Maw's, with mirrored backs; or would exchange for a similar one 5 ft. long. PARKER, Uttoxeter.
SALE, cheap: 140 shop-rounds, all sizes; 10 3-lb. 22 1-lb. ointments canopy; 5 grain pill-machine, mortars, and suppository-moulds. ARMITAGE, Raydon Street, Highgate.
45 MAHOGANY-FRONTED drawers, 6 ft., £3 10s.; outside square lamp and arm, £1 5s.; 2 bent-glass counter-cases, £1 4s.; 4 doz. assorted narrow and wide mouth shop-rounds, £1. WILLIAMS, 132 Adelaide Road, Hampstead.
FOR sale or exchange, outside lamp, octagon shape, solid copper frame, cut glass sides, bevelled edges, ruby top, and cut glass bowl as base, 3 incandescent burners, with arm complete; cost 15 guineas, sacrifice for £4 4s., or exchange for dispensing-counter and serum. 159/18, Office of this Paper.

MISCELLANEOUS.

DENTAL hand and foot lathe, new, unused, 25s.; cost 35s. LITTLE, Chemist, Chesterton, Staffs.

WANTED.

BOILER and steam-pan, complete. HARRIS, Abington Works, Northampton.
SECOND-HAND dispensing-scales. DR. ANDERSON, Denbeath, Methil, Fife.
SECOND-HAND red lamp, with 2-ft. pedestal. GILBERT, 40 Chelvanston Road, Putney.
MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.
SQUIRE'S "Companion," late edition; pill-machine; good condition. KENNEDY, Borris, Carlow.
FOLDING camera, compact, $\frac{1}{2}$ plate, good lens; shop soiled or second-hand. 163/9, Office of this Paper.
ODD lot empty perfume-bottles, check-till. Send particulars to "CASH" (162/31), Office of this Paper.
SECOND-HAND vertical plaster-spreading machine. Full particulars with price, 236/33, Office of this Paper.
"CHEMIST AND DRUGGIST," August 10, 1907; must be clean and perfect. Post flat to "S. B." (20/20), Office of this Paper.
250 SHOP-ROUNDS, also ointment-jars, scales, etc.; good condition. Particulars to "T.," 85 Bridge Street, Manchester.
ATFIELD'S "Chemistry" (18th edition) and Bentley's "Botany." HUNTER, Maughan Street, Benwell, Newcastle.

ADDRESSES WANTED.

THE address of Walsam, Davey & Co., Ltd., late of Oxford House, Oxford Street. 20/15, Office of this Paper.

Canadian News.

(From the "C. & D." Correspondent.)

MR. FRASER CHAPMAN, of the well-known drug firm of Chapman-Dart, Craig Street, Montreal, died suddenly on September 15. He was forty-six years old, and leaves a widow.

CANADIAN MEDICAL ASSOCIATION.—The McGill University, Montreal, was in gala attire when the fortieth annual meeting of the Canadian Medical Association took place at the William Molson Hall from September 11 to 13. Among the invited guests was Dr. Rolleston, of London (England), who delivered the address on medicine. Dr. A. McPhedran, of Toronto, occupied the chair, and the proceedings were of great interest to the medical men in attendance. The President, in his address, emphasised the need of reorganisation to meet the increasing demands of a growing country, and to enable the country to occupy its proper place in the medical world. He also pleaded for the establishment of a medical journal, which he thought that Canada with her 6,000 physicians should be well able to maintain. After the President's address a reception was held, the guests being received by the President. A garden-party was held next day at Terrace Bank, the residence of Dr. Roddick, and the proceedings were brought to a close on the third day by a golf match at Beaconsfield, where the visitors were entertained by Sir George Drummond. At the election of officers, Dr. F. Montizambert, of Ottawa, was chosen as President, and Ottawa was fixed as the next meeting-place of the Association.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, October 7.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 7.30 P.M. Annual meeting.

Dewsbury Chemists' Association, Church House, Church Street, at 8.45 P.M. Ordinary meeting.

Medical Exhibition, Royal Horticultural Hall, Vincent Square, Westminster, London, S.W. Opens at 11 A.M., and remains open till October 11.

Tuesday, October 8.

Sheffield Pharmaceutical and Chemical Society, Builders' Exchange, Cross Burgess Street, at 9 P.M. Annual general meeting and election of Council.

Wednesday, October 9.

North-East Lancs Chemists' Association, White Bull Hotel, Blackburn, at 9.30 P.M. Annual meeting.

Manchester Pharmaceutical Association, State Café, Piccadilly, at 7.45 P.M. Reunion of members of the Association, the ladies' committee, and guarantors of the British Pharmaceutical Conference. Tickets (2s. 6d.) from Mr. J. C. Kidd, 551 Cheetham Hill, and other members of the committee.

Thursday, October 10.

St. Vincent Association, Cannon Street Hotel, London, E.C., at 7.45 P.M. Annual dinner.

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Meeting. Inaugural address by the President (Mr. W. G. Northey).

Bath Pharmaceutical Association Technical Schools, at 8.30 P.M. Annual meeting and election of officers.

THE meeting of the Barnsley Chemists' Association announced for September 26 was unavoidably postponed.

CHEMICAL SOCIETY.—The Faraday lecture will be delivered in the theatre of the Royal Institution, 21 Albemarle Street, W., on Friday, October 18, at 9 P.M., by Professor Emil Fischer, F.R.S., on "Organic Synthesis and its Relation to Biology."

MR. ALEXANDER BOTTLE, J.P., Ph.C., Dover, was reported to be slowly sinking on Thursday afternoon.

Prescription Problem.

THE response to the problem set in the *C. & D. Supplement*, September 21, has been good, and although the prescription was a French one, the replies from England, Scotland, Wales, and Ireland have not been swamped by the cards received from abroad, where the style of script may be taken to be fairly familiar. The following is the transcription:

Kermès minéral	...	...	...	30 centigrams
Sirop d'hysope	...	...	...	30 grams
Infusion de	Lierre	Terrestre		
[ground ivy]	...	...	...	120 grams

F.S.A. [Faites selon art].

Une cuillerée a soupe toutes les deux heures [one table-spoonful every two hours].

Most of the competitors have also added the date, doctor's name, and a reading of the prescription-stamp, but these we have not taken into account for several reasons. The chief difficulty has been in the letters "F. S. A." Many did not attempt to give the equivalent words, which we have taken to be in French, and not in Latin, as some competitors give it. The following receive 5s. each for correct solutions. In the "Scotland, Ireland, and Continent" section the award cannot be made, as no competitor has given the rendering of the letters "F. S. A.," or where this has been given some other errors exist:

London and Home Counties.

MR. J. JUDGE,

City Pharmacy, 27 Chancery Lane, London, W.C.

English Provinces and Wales.

MR. E. RICHARDSON,

1 Holborn Place, Plymouth.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.

South of England College of Pharmacy, 186 Clapham Road, London, S.W.

Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester.

Manchester College of Chemistry, 225A and 227A Oxford Road, Manchester.

North of England College of Chemistry and Pharmacy, 55 Northumberland Street, Newcastle-on-Tyne.

Brixton School of Pharmacy, 78 Stockwell Park Road, London, S.W.

Scottish Optical College, 4 Newton Street, Charing Cross, Glasgow.

THE exports of carnauba wax from Pernambuco during 1906 amounted to 1,076 tons, against 645 tons in 1905 and 639 tons in 1904.

THE annual report of Professor P. Carmody, Government Analyst and Professor of Chemistry, Trinidad, has reached us. It contains a full record of the year's analytical work. We note that arsenic is the favourite poison, and it is recommended that something be done to prevent the poison being obtained in large quantities.

ANTITYPHOID SERUM.—Professor Chantemesse read a paper at the International Hygiene Congress last week on the treatment of typhoid by serum, in which he declared that during the last seven years he had never lost a patient whom he had injected with serum within a week of falling ill. The serum is, however, by no means effective in every case, but is a most potent medicament if rightly applied.

GUATEMALA TRADE.—The trade of the United Kingdom with Guatemala has been declining for several years past, and an analysis of the imports in 1906 reveals the unpleasant fact that we now only take the third place, whereas in 1905 we ranked second. In imports to Guatemala the United States is first and Germany second, whereas in exports Germany absorbs half of the total, which last year was 1,427,200%, the share of the United States being 432,000%, and the United Kingdom being 173,000% only. The amount of chemical and pharmaceutical products imported in 1906 was 48,498%, against 38,668% in the preceding year.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their *bona-fides*.

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The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 6d. is charged by us on any transaction of 3l. or less, and 1s. if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank, Ltd."

FOR DISPOSAL.

APPARATUS.

GARDINER'S mixing-machine, not sifter; cost £28; 1 cwt. capacity power. "R.," Reform Works, Dudley.
MAW'S composition mortar and pestles, nearly new, No. 6 3s. 6d., No. 8 5s., No. 10 7s. 6d.; pill machine, 5.24 grains, 10s. HOLMES, 38 Graham Road, Dalston, N.E.
COMPOSITION (stone) funnels: 3 7's, 1s. 2d. each; 3 8's 1s. 6d. each; 8 9's, 1s. 9d. each; 19 10's, 2s. 3d. each; 3 11's, 3s. each; 8 12's, 3s. 6d. each; free on rails, Leeds; free packages. THOMAS SWALES, Butt's Court, Leeds.

DRUGS AND CHEMICALS.

FOR sale, about $\frac{1}{2}$ oz. finest grain musk; what offers? "CHEMIST," 1 Broadway, Mortlake.
OLEUM eucalypti glob. B.P., 1 cwt.; cash offers, whole or part. STEAD, 411 Edgware Road, W.
12 LB. chlorodyné, Squire's formula, part or whole, 2s. lb., carriage paid. W. PRATT, 1 Westgate, Cleckheaton.

FORMULÆ.

RECIPE for toilet creamoline, 2s. B. FRANCE, 42 Vartry Road, London, N.

OPTICAL AND PHOTOGRAPHIC.

NO. 4 cartridge Kodak, recently renovated, with plate adapter, 6 double slides and leather case; what offers? ASHFIELD, Shanklin.
WHAT offers? 3 6-sheet rolls "Valento" platino matt, 24 by 20; 5 gross boxes P. Cards, 12 months old; 9 Rotox Paper, 5 by 4. CARLETON, Chemist, Larnie.
MICROSCOPE by Swift, 2 eye-pieces, 2 objectives, in perfect condition, cost £8; price £4. Particulars from WATT, Church Missionary College, Islington.
"HANA" bromide printing-machine, with oil lamp; description see Houghton's list; quite new; not used; cost £3 16s.; sell £2 10s. f.o.r.; deposit. DAVIES, Newport (Pem.).

SHARES.

SHARES for Sale.—See p. 68.

SHOP FITTINGS.

COUNTER, dispensing-screen, drawers, carboys, going cheap. Seen 91 Southfield Road, Chiswick.
LAMPS (outside), 3 handsome pear-shaped, 2 semi-opal, 1 ruby, engraved. McKEE, Chemist, Acton, W.
SALE, or exchange for saleable patents, dispensing-screen, with counter at back, 4 ft. 6 in. long, 5 ft. 6 in. high; 3 carboys for window; 2 specie jars; outside lamp; all in splendid condition. 177/11, Office of this Paper.

MISCELLANEOUS.

DENTAL chair, good condition. DENT, 4 Chatsworth Road, Stratford, London.
WHAT offers? Gutta percha, $\frac{3}{4}$ lb.; Dawson's No. 1 Indian cheroots, per 100. COULSON, Downham Market.
WATER-BED, 36 in. by 36 in., splendid condition, 18s. 6d.; a bargain. RANDALL, Chemist, Eastbourne.
WHITE'S "Columbia" hydraulic dental chair, perfect condition; cash £12. "A. V.," 31 St. Philip's Road, Dalston.

WANTED.

ONE and 2 gal. copper measures. RAYBOULD, Reform Works, Dudley.
SMALL check-till, with cash rolls. BILLINGTON, Midland Road, Masbro'.
LAST edition of Kelly's Directory of Chemists and Druggists. EVERIL, LTD., Hull.
BORAX; crude or damaged suitable. State price per ton, 172/8, Office of this Paper.
MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.
PLATE adapter and slides for No. 3 Cartridge Kodak. "H.," 5 Throstle Bank, King Cross, Halifax.
NATIONAL cash register; must be in perfect working order. "O. O. E.," 147 Fore Street, Edmonton.
SECOND-HAND shop-rounds, good condition. State list of labels and height of bottles, lowest price, to ABBOTT, Shipley.
SET of drug-drawers, shelves above; also nest of drawers; cheap. Apply, Newton, Stoney Lane, Southwick, Sunderland.
"CHEMIST AND DRUGGIST," August 10, 1907; must be clean and perfect. "A. V.," 31 St. Philip's Road, Dalston. Office of this Paper.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Tuesday, October 15.

Bradford Chemists' Association, Royal Hotel, Darley Street, at 9 P.M. Discussion on the Proprietary Medicine Trade opened by Mr. Hanson.

Wednesday, October 16.

Royal Microscopical Society, 20 Hanover Square, London, W., at 8 P.M. "Note on a New Prismatic Microscope Ocular," and "On Ghost Images seen in the Secondaries of *Coseinodiscus asteromphalus*," by Mr. A. A. C. E. Merlin, and "Systematic Exposure with Transmitted Light in Photomicrography," by Mr. Alfred Letherby.

Western Chemists' Association, Norfolk Square Hotel, London Street, Paddington, London, W., at 9 P.M. First meeting of the section. The Secretary informs us that papers have been promised by Dr. W. H. Martindale, Mr. J. D. Marshall, Mr. C. T. Allen, and Mr. W. Brown, the subjects being "Old Pharmacy Pots"; "Nurses"; "Ways and Means of Co-operation between Pharmacist and Physician"; and "The Pharmaceutical Codex."

North Kent Chemists' Association, Medical Hall Rooms, Gravesend, at 4.30 P.M. Ordinary meeting.

Thursday, October 17.

The Optical Society, 20 Hanover Square, London, W., at 8.30 P.M. First Thomas Young oration on "The Development of the Science of Optics during the Nineteenth Century," by Professor M. H. E. Tscherning.

West Ham Chemists' Association, Earlham Hall, Forest Gate, E., at 7.45 P.M. Whist drive. Tickets, 1s. 6d. each, include light refreshments.

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Musical and social evening.

Friday, October 18.

Chemical Society, Theatre of the Royal Institution, at 9 P.M. Faraday lecture by Prof. Emil Fischer, F.R.S., on "Organic Synthesis and its Relation to Biology."

The annual dinner of the Bournemouth Pharmaceutical Association will be held at Gervis Hall Restaurant, Gervis Place, on October 23. Mr. Walter Hills (Treasurer of the Pharmaceutical Society) has promised to be present. Tickets (5s. each) may be had from Mr. W. A. Bingham, Hon Secretary, Charrminster Road.

Business Hints.

Thoughts on "Stock."

"**STOCK**" is that which is bought for sale or which enters into the preparation of that which is put up for sale. From this definition it would seem that stock is that from the sale of which *profit* is to be ultimately derived, either directly or indirectly; yet while this is so, generally speaking such a class of goods as, e.g., trade stationery, is reckoned as "stock," though it more truly represents value spent in working-expenses; and in much the same way printed matter bought to advertise goods in any manner is not really stock, but should be charged up as a working expense.

Stock can be classed in two chief divisions—the Directly Profitable and the Indirectly Profitable, the former being differentiated into groups, some lines being very profitable, others scarcely profitable at all, thus:

Classification of "Stock."

"Dead stock" is quite another matter. It consists of goods that have gone out of sale, for which there is no present demand. In deciding what to buy, stock as little as possible of those lines that bear the least profit. Deal with as few firms as possible, provided you get a good selection of lines to choose from and you are not overcharged in price. Not only does this save booking, which is perhaps a minor consideration, but it saves time and expense in returning empties, and enables one to give larger individual orders, thereby often getting better terms, and does much to establish friendly relations between retailer and manufacturer. The wholesaler will be far more likely to do his utmost to please a customer who gives him a good share of his orders.

Stockkeeping is like bookkeeping, in that it matters not what system be adopted, the simpler the better, so long as it is methodical. It is much easier to commence well in starting a business with a systematic arrangement of new stock than it is to take over another man's business and attempt to institute reforms therein. There is only one rule for the stockkeeper to remember. Have a fixed place for everything, and so stick to this rule that if you see a vacant spot upon your warehouse shelves you may be sure that that particular line is sold out, and it is needless to spend time in looking for it elsewhere.

When we come to the matter of how stock should be sold we reach the heart of the business. There are many sides to the question. It implies the consideration of the manner in which customers are addressed, the way parcels are labelled and wrapped, the quality of the goods supplied, and the prices charged. Many till-rolls have three money-columns, and, as a daily or hourly reminder that *profit* is the one all-important consideration in business, these three columns may be used to differentiate between the classes of sales. Let P represent patents and proprietaries, let PPP show the dispensing and prescribing, all the rest of the trade being classed together under PP.

Let it be your aim to make column 3 the highest each day. It may not be that you will do it, but let this be your aim.

At the end of a day's trade some very serious thoughts present themselves upon consideration of the respective totals of these three columns. Incredible though it seems, there is more actual profit on a few shillings' worth of business represented in column 3 than on a pound's worth in column 1. A far better living is to be got out of a small prescribing and dispensing business not turning over 10% per week than out of many a business where patents are heavy, dispensing is at a minimum, where a brisk cash trade is done at cut rates, with no time or opportunity for prescribing—a business from which the returns may be high but the profits low. The real answer to the question "How to sell" is "Sell at a good profit."

P.	P. P.	P. P. P.	P. P. P.
10 1/2	1	1	6
1 1/2	6	1	3
7 1/2	1	1	10
3 8	4	1	3
10 1/2	6	1	6
1 0 1/2	1 1/2	1	0
10 1/2	1	4	
1 1/2	7		
	5		
	1		
	3		
	7		
	8		
	6		
	1		
	2		

At about 8% profit
At about 25% profit
At from 60% to 70% profit

STOCK.

CHARGE TO FIXTURES ACCOUNT.
Trade-books, books of formulae—e.g.,
"Pharmaceutical Formulas"—
dental forceps, sight-testing case
and cards, etc.

True Stock.

CHARGE TO EXPENSES ACCOUNT.
Posters, handbills, price-tickets,
window-slips.
All printed advertising matter.

DIRECTLY PROFITABLE.

P

Patent medicines, patent foods, proprietaries, mineral waters, etc.

PP

Toilet sundries, invalid requisites, photographic goods, etc.

PPP

Drugs (dispensing, prescribing), "packed goods" (own name), etc.

INDIRECTLY PROFITABLE.

Examples.

Labels, bottles, boxes, wrapping-paper, string, sealing-wax, corks, patent-medicine stamps, filter-papers, etc.

NOT PROFITABLE.

Examples.

Trade stationery (postcards, memo. forms, billheads, envelopes, etc.).

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their *bona-fides*.

We again call the attention of those who use this column for the sale or purchase of goods to the desirability of using our Deposit System. Some forward goods before they receive money for them, and others forward money to advertisers before they have even seen the goods. Disappointment in such circumstances is bound to happen now and then, and it is to prevent this, as well as to check fraud, that our Deposit System was instituted.

The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 6d. is charged by us on any transaction of 3l. or less, and 1s. if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank, Ltd."

FOR DISPOSAL.

APPARATUS.

BECKER'S balance, new condition, not in case, with weights. 100 grammes to 1 milligramme; 35s. BRICKELL, Chemist, Brondesbury, N.W.

ONE large mixing-machine; 2 upright earboys with stone stoppers and elctro taps, about 4 gal.; one slightly smaller, glass stopper and electro tap; also 2 Maw's mortars, No. 10, as good as new; what offers? Apply, WARD, 10 Great Pulteney Street.

BOOKS AND PERIODICALS.

MINOR books, complete, including "Pharmacopodia," new; 18s. 6d., carriage paid. 183/302, Office of this Paper.

DRUGS AND CHEMICALS.

ABOUT $\frac{1}{2}$ oz. fine grain musk; what offers? "CHEMIST," 1 Broadway, Mortlake.

OLEUM Eucalypti Glob., B.P., 1 cwt. Offers, whole or part, STEAD, 411 Edgware Road, W.

12 LB. chlorodyne, Squire's formula, part or whole, 2s. lb., carriage paid. W. PRATT, 1 Westgate, Cleckheaton.

EIGHT fluid ounces of finest ess. Bergamot for 7s. 6d., or 1-lb. bottle for 15s., carriage paid. A. F. COLLIS, 11 Abbey Churchyard, Bath.

PROPRIETARY ARTICLES.

OVERSTOCKED.—6 gross spiral and snake fly-catchers; 5s. gross. MATTHEW, Hoyland, Barnsley.

OVERSTOCKED.—2 gross Mirella gold paint, 1s. size; accept 5s. 6d. doz., carriage forward. KEMP, 135 Great Dover Street, London, S.E.

OPTICAL AND PHOTOGRAPHIC.

72 MICROSCOPE slides, 1s. 6d. doz., 8s. lot; exchange approved. LINTIN, 170 Freedom Road, Sheffield.

"HANA" bromide printing-machine, with oil lamp; description see Houghton's list; quite new; not used; cost £3 16s.; sell £2 10s. f.o.r.; deposit. DAVIES, Newport (Pem.).

SHARES.

SHARES for Sale.—See p. 66.

SHOP FITTINGS.

COUPON-GIVING till. 59 Shakespeare Street, Southport.

HANDSOME dispensing-screen, with counter and drawers, for disposal; excellent condition; may be seen any time. SHIRTLIFF & Co., Chemists, Acton Hill, W.

MISCELLANEOUS.

DENTAL chair, good condition. DENT, 4 Chatsworth Road, Stratford, London.

WHITE'S Columbia hydraulic dental chair, perfect condition; cost £40; £12 cash. "CHEMIST," 132 High Street, Homerton.

NATIONAL cash register, 4-drawer machine, nearly new condition; cost 105 guineas; will accept 75 guineas. Address, 185/25, Office of this Paper.

GAS apparatus, complete, good condition, with Barth's stop-cock and face-piece; price £3 5s. POYAH, 19 Railway Approach, London Bridge.

INSTRUMENTS.—1 case (second-hand) surgeon's instruments (full set for operations), by Weiss, London; list price £16; will take 3 guineas cash; also 1 case second-hand ditto, by Evans & Wormull (London), list price £16 10s., will take 3½ guineas cash, or offers; all instruments with ebony handles; carriage paid; approval. THOMAS SWALES, Butts Court, Leeds.

WANTED.

WICKER spinal carriage for child of 8. CLIFFORD MOORE, Chemist, North Finchley.

PLATINUM purchased; prompt remittance. ROWSELL, 11 Crebore Street, Dulwich.

POWDER mixer and sifter, in good condition and cheap. MACPHERSON, Chelmsford.

MATERIA Medica specimen cabinet. J. JONES, Pharmaceutical Chemist, Bridgend.

LATEST edition of Kelly's Directory Chemists and Druggists, OZONIA Co., Dublin.

WATER-BED. 72 by 36, equal to new. Price and weight, HUXE, Chemist, Chester.

KELLY'S Post-office London Directory, 1906; good condition. WATSON, Caistor, Lincolnshire.

ON Approval.—Good second-hand microscope for bacteriological research. HILSTON, Lanark.

BOOKS for the Minor required. State prices, "F. L. S.," 71 Darlington Street, Wolverhampton.

MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.

13½ LINED liniment, must be clean and perfect; 6 doz. or gross lots. 188/33, Office of this Paper.

MICROSCOPE (student's). State powers, etc., in full, "W. J. B.," 7 Pelham Road, South Woodford, N.E.

ROSE (otto), musk, odd lot perfume-bottles, check-till. Send particulars to "CASH" (252/17). Office of this Paper.

GOOD optician's trial-case; perfect condition. Send price and description, POSTLETHWAITE, Chemist, Barrow-in-Furness.

IMMEDIATELY, shop-rounds; W.M. and N.M. list and prices; second-hand, cheap; also pill-roller for 24×5-gr. machine. THOMAS, Ferndale.

WINDOW-ENCLOSURE, 9 ft. long and 4 ft. high, with standards and plate-glass shelving; new or second-hand; specification and lowest cash price. 183/25, Office of this Paper.

ADDRESSES WANTED.

ADDRESS of printer, stock pictorial cattle-medicine posters. COOMES, Great Missenden, Bucks.

THE address of Walsam, Davey & Co., Ltd., late of Oxford House, Oxford Street. 20/15, Office of this Paper.

Russian Notes.

CHEMICAL GLASSWARE.—It is stated, says the "Pharmatz. Journal," that the price of glass vessels for pharmacists' use has risen so high of late at the factories, and the supply has become so short, that some large pharmacists have decided to open for themselves a special factory in St. Petersburg to produce such goods.

THREE VISITORS.—The journal "Segodnya" relates that on September 18 at 5 A.M. three armed men entered the Novonadezhdin Pharmacy in St. Petersburg, and shutting the assistant and two boys in a small cupboard, proceeded to ransack the establishment. They eventually departed with securities to the value of several thousand roubles and all the loose cash.

THE MOSCOW SOCIETY OF PHARMACISTS recently approached the Senate with a request to amend the decree of the late Minister of the Interior annulling the limitation previously existing as to the number of pharmacies that may be opened, and urging that such cancellation may only be effected by a new law. They have now been informed that the old regulation was the result of a Ministerial decree, and requires only a Minister's decree to destroy it. On the other hand, the news that twenty-four new pharmacies are to be opened in St. Petersburg has attracted, says the "Pharmatz. Journal," a large number of unemployed assistants to the capital, and so swelled the ranks of the unemployed. The provinces have been circularised pointing out that St. Petersburg is already over-staffed, and that it will be a long time before the new pharmacies are opened.

THE CHEMISTS' OWN DARLING.

Since the appearance of this great work, the initials "C.O.D." have become invested with a new and important significance. Since the publication of "Alice in Wonderland" it is doubtful if anything so absorbing has appeared. The following testimonials (collected by a not unfriendly critic) will go to show the great value of the work:

DEAR SIR.—Having received from a friend in the North some botanical specimens of an intensely prickly nature, I was at a loss as to some means whereby to press and preserve the same. I tried the Extra Pharmacopoeia, but found it useless. Just as I was giving it up as hopeless, your wonderful "C.O.D." arrived, and I am now in possession of the best dried specimens of *Carduus* in the country.

Yours, etc.,

COUNCILLOR.

DEAR SIR.—I cannot thank you too heartily for your great volume. I have already made use of it on three occasions when visited by tax-collectors, and others. It has never failed to hit the mark. The book is still intact, and I am sure it will serve me on many such occasions before it finally gives way.

Yours,

PERSECUTED.

SIR.—I wish to know what right you Londoners have to publish a book without consulting the Scottish members first? If you think we are going to buy a pig in a poke by paying before we get your book, you are mistaken. No me! I'm a Scotsman, and I'll get a sight o' 't at the Carnegie Library!

Yours,

SANDY.

[We print the last letter—the only unfriendly one we have received—to show the disloyalty of some people who ought to know better.—EDITOR "C.O.D."]

The annual reunion of the Chemists' Assistants' Association will be held in the Banqueting Hall, Restaurant Frascati, Oxford Street, London, W. The chair will be taken by Mr. Harry Hickey. Tickets (1s. 6d. each) may be had from Mr. A. R. Arrowsmith, 4 Stratford Place, W.; Mr. A. H. Solomon, 75 Holland Road, Kennington; and Mr. Chas. Martin, 98 Camberwell New Road, S.E.

LEICESTER PHARMACY ATHLETIC CLUB.—During the past cricket season seventeen matches were played by this club, six being won, five lost, five drawn, and one tied. The runs for the club totalled 1,507 with 1,229 against, wickets 148 against 143. average 10.18 against 8.59. The best batting average was that of Mr. C. A. Forryan, who scored 192 runs (two not out) for eight innings, an average of 32. Next came Mr. J. H. Miles with 298 runs for 14 innings, average 21.13; and Mr. E. Tomlin, 202 runs for 13, average 16.85. The lowest bowling average was that of Mr. J. H. Miles—4.7.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Friday, October 18.

Blackpool and Fylde Chemists' Association, Palatine Hotel, at 9 P.M. Meeting to arrange winter closing hours.

Saturday, October 19.

Brewers' Exhibition, Royal Agricultural Hall, Islington, London, N. Opens, and remains open till October 22.

Monday, October 21.

London Chamber of Commerce (the Proprietary Articles Section) will meet at the Offices of the Chamber at 4.30 P.M. to discuss the replies (if any) from Lord Elgin and Mr. Lloyd George, and to appoint the order of the speakers at the Deputation to be received by Captain Muirhead Collins (Commonwealth Officer in London) on the following day.

Wednesday, October 23.

Bournemouth Pharmaceutical Association, Gervis Hall Restaurant, Gervis Place, at 7 P.M. Annual dinner, at which Mr. Walter Hills, Treasurer of the Pharmaceutical Society, will be present. Tickets (5s. each) from Mr. W. A. Bingham, Charminster Road.

Leeds Chemists' Association, Grand Central Hotel, at 8.45 P.M. Discussion on patent medicines. The President will move the following resolution was unanimously passed at a Council-meeting on October 15: "That we discourage in every possible legitimate manner the sale of 'patent medicines,' except the small percentage which are of proved value."

Thursday, October 24.

Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 P.M. The following papers will be communicated: "The Constitution of Phenol- and Quinol-phthalein Salts: a Contribution to the Quinonoid Theory of Colour," by Professor A. G. Green and Mr. P. E. King; "Poly-ketides," by Dr. J. N. Collie; "Production of Orcinol Compounds by the Action of Heat on the Sodium Salt of Ethylacetoacetate," by Dr. J. N. Collie and Mr. E. R. Chrystall; "A Simple Gas-generator for Analytical Operations," by Mr. J. M. Sanders; "Some Double Ferrocyanides of Calcium, Potassium, and Ammonium," by Professor J. Campbell Brown; "Halogen Determination in Organic Substances," by Dr. J. Moir; "Racemisation by Alkali as Applied to the Resolution of *m*-mandelic Acid into its Optically Active Isomerides," by Dr. A. McKenzie and Mr. H. A. Müller; "The Optical Activity of Cyclic Ammonium Compounds," by Mr. F. Buckney and Dr. H. O. Jones, and others.

Chemists' Assistants' Association, 73 Newman Street, London, W., at 9 P.M. Short papers.

Wolverhampton Chemists' Association, Central Hall, School Street, at 7 P.M. Smoking-concert. Tickets (2s. 6d. each) from Mr. J. H. Coleman, Hon. Secretary, 7 Worcester Street.

College Notes.

FOOTBALL.—Bath College of Pharmacy F.C. played their opening match against Bath Victoria on October 10, and a well-contested game ended in a draw of two goals each.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.

South of England College of Pharmacy, 186 Clapham Road, London, S.W.

Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester.

Manchester College of Chemistry, 225A and 227A Oxford Road, Manchester.

Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

THE MANUFACTURE OF GLUCOSE has been steadily increasing in Great Britain since an Excise duty was imposed on it in 1901-2. The first year 525,225 cwt. of solid and 22,993 cwt. of liquid glucose paid duty. Last year the quantities were 607,797 cwt. of solid and 218,785 cwt. of liquid, the latter comparing with 66,429 cwt. in 1905-6.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

TO BUYERS AND SELLERS.

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FOR DISPOSAL.

APPARATUS.

GARDINER'S mixing-machine, 2 cwt., cost £28. RAYBOULD, Reform Works, Dudley, Worcester.
USEFUL set apparatus and reagents, suitable for fitting up student's laboratory, cost £7, accept £3 net, list on application; Newth's "Inorganic," Attfield's (17th edition), both as new; what offers? "CHEMIST," 15 Barratt Street, Southport.

BOOKS AND PERIODICALS.

GREEN'S "Botany," 2 vols., 8s.; Newth's "Elementary Chemistry," 1s. 6d.; "Botany for Beginners," 1s. 6d. 201/13, Office of this Paper.
PERKIN & KIPPING, Everitt, Attfield, Posten's "Essentials"; Knight, Newth, Oliver, "Pharmacopodia"; offers, cash or exchange photographic. "CHEMIST," 45 Whitely Road, Norwood, S.E.

DRUGS AND CHEMICALS.

FULLWOOD & BLAND'S Annatto, 2 ½-gal. jars; 10s. SMITH, Chemist, Dursley.

FORMULÆ.

CREAM recipe for sale, cheap. B. FRANCE, 42 Vartry Road, London, N.

PROPRIETARY ARTICLES.

ICILMA cream, 6 doz., at 8s., carriage paid; wanted, No. 3 or 3A F.P.K. BELL, Woodville, Hadnall, Shrewsbury.

SHARES.

SHARES for Sale.—See p. 66.

SHOP FITTINGS.

COUPON-GIVING till. 59 Shakespeare Street, Southport.
SALE.—6 doz. gold-labelled bottles, jars, etc. "B.," 169 Dagon Road, Hanwell.
2 CUT-GLASS show-carboys, about 10 pints. GATES, St. George's Road, Glasgow.
PART fittings, comprising drawers, counters, cases, window-enclosure, carboys, etc. LACEY, Potters Hill, Birmingham.
6 FT. mahogany drawers, £3 7s. 6d.; 2 carboys, 10s.; outside lamp and arm, £1 4s.; 2 bent cases, 14s.; 4 doz. shop-rounds, £1. M. FASHION, 23 Eversholt Street, Camden Town.
WALL-CASE, 7½ ft. long, 7½ ft. high, 4 doors, mahogany colour, deal, excellent condition, carriage paid £5; also 6-gal. stoppered show-carboys, with rails and bracket, 25s. STANFIELD, Chemist, Waterfoot, near Manchester.

MISCELLANEOUS.

V.D. VIERATOR, new, complete, £1, carriage paid. HADFIELD, Dale Road, Matlock.
DENTAL chair for sale; Archer's patent. DENT, 4 Chatsworth Road, Stratford, London.
DENTAL engine, second-hand, in perfect condition, 65s. cash. CHALE, 73 Great Portland Street, London, W.
½ H.P. Crossley vertical gas engine, in perfect working order; complete with tank, £10. 192/28, Office of this Paper.
BATH, indiarubber, portable, 36 in., in first-rate condition; air-cushion, circular, sound, been little used; offered cheap. Particulars, GILLIATT, Boston, Lines.
DENTAL chair, covered green velvet, accept £7; also gun-metal vulcaniser, takes 2 large or 3 small flasks; good condition. EDWARD, 19 Railway Approach, London Bridge.
STUDENT'S microscope (Leitz), 300 times, 30s., or offer; materia medica specimens, collection of 52, in glass-lidded box, 15s., or offer. C/o "DISPENSER," 218 Kilburn Lane, London, W.

WANTED.

B.P., 1898; cheap. "LAXATUS" (19/91), Office of this Paper.
RECESS shop-rounds, also pots, label-drawer, scales. 198/17, Office of this Paper.
PLATINUM purchased; prompt remittance. ROWSELL, 11 Creber Street, Dulwich.
WALL-CASE, 6 to 10 ft. counter, bottles, etc.; in fair condition. "J. E.," 184 Dalston Lane.
MINOR books, chemists' books, for cash or exchange. GOWLE, Bookseller, Waterloo, Liverpool.
13½d. LINEEL liniment, must be clean and perfect; 6 doz. or gross lots. 183/33, Office of this Paper.
SMALL earboy and specie-jars. Prices, packed, carriage paid to Leeds. 196/36, Office of this Paper.
ROSE (otto), musk, odd lot perfume-bottles, check-till. Send particulars to "Cash" (197/37), Office of this Paper.
A MORTON ophthalmoscope; must be perfect and cheap. J. WILLIAMS, London Hospital College, Whitechapel Road.
OUTSIDE lamp, gilt, mortar shape, with 2 or 3 bull's-eyes; also label-drawers, dispensing-scales. Glebe Road Works, Dalston, N.E.
PLATE-GLASS shelves, brackets and standards, large counter-case, wall-case, and check-till. Offers to HODGSON, Hemsworth, Wakefield.
CONGREAVE'S, Mellin's Food, Sparklets, Odol, Virol, Colgate and Williams' shaving, Daisy, Angier, etc.; cash. 196/7, Office of this Paper.
CHECK-TILL, good order; second-hand; dispensing-screen and counter, 6 ft. long, good condition. Apply, BAILEY, Thorold Street, Euston.
DENTAL forceps, 1 doz. or less, new or second-hand, oil bottles (40 oz.), pedestal outside lamp for medical man. 197/43, Office of this Paper.
RECESS shop-rounds, oxygen cylinders, maroon jars, cachet machine, moulds, B.P., Martindale, P.J. Formulae. JACKLIN, Ashley Road, Hale, Cheshire.
SMALL circle mahogany counter-case, outside measurement 2 ft. 2½ in. by 12 in. by 7 in. high; top to open preferred. MITCHELL, Chemist, Dumbarton.

Minor Experiences.

London.

NOTICE to attend at the Square for first day on September 25 came somewhat as a surprise, my name being well down the alphabet and this being the opening day. I awoke about 6 A.M. feeling very unhappy. Breakfast at 8 A.M. and at 9 A.M. we shook hands all round and two of us set off to "do or die." I had not seen Galen Place before, and was still deep in its admiration when the door opened and with the rest I went in. Now that I'm through I can see the humour of the situation—how fellows were making feeble attempts at smiling and all that sort of thing—but at the time it did not appeal to me. I was soon called to dispensing, Messrs. Goldby and Gulliver being the examiners. My paper was:

Lin. terebinthinae 200 c.c.			
Bism. carb.	...	...	gr. xv.
Sodii bicarb.	...	...	gr. xx.
Pulv. trag. co.	...	...	gr. x.
Tinct. card. co.	...	...	5ss.
Inf. aurant. co. ad	...	...	℥j.
Mitte ℥vj. ½ ter die p.o.			
Ung. sulph. iodid. 30 grams.			
Strychnine	...	...	gr. 3j.
Acid. arsen.	...	...	gr. 4j.
Quin. sulph.	...	...	gr. iss.
Fiat pil. j. Mitte xxiv. Varnished.			
Sig.: j. bis terve die.			
Menthol.	...	...	5 per cent.
Paraff. liq. P.B. ad	...	...	℥j.
"The Solution for the Atomiser."			

Anticipating an infusion I set a kettle of water on at once, so that I was able to commence without delay as soon as the papers were handed round. The lin. tereb. made the B.P. way turned out slightly thick, but everything else went well. The pills massed excellently with ½ grain tragacanth for each and syr. glucosi q.s. Ung. sulph. iodid. required a lot of patience, but turned out quite free from any gritty particles. I had finished at 12.30.

Chemistry in the afternoon, qualitative work first. I lost a little time through not quite understanding whether my salt was one substance or a mixture of two. Eventually I found bismuth salicylate. Volumetric took longer—in fact, I had not quite enough time to finish, but I wrote the method and did one titration.

"Given a solution of KOH not exceeding N/4 in strength, partly neutralised with oxalic acid. Determine the amount of $\text{H}_2\text{C}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ that has been added and the KOH in excess.

Given. Pure xtls of oxalic acid and pot. permang.

Next afternoon I heard that I was through and required for second day on October 3. At 10.30 on that morning I was again at the Square, feeling more determined than ever. Prescription-reading was my first subject. I had about twenty prescriptions to read, one to put into full Latin, and a simple calculation to do on the following:

Morph. tart.	...	...	gr. ½
Atrop. sulph.	...	...	gr. 150
Aq. steriliat. ad	...	...	℥x.

Mitte 3ij.

"How much of each ingredient, and how would you get them?"

For the atropin. sulph. I calculated the quantity of B.P. liqur necessary. After about twenty doses I had finished.

Chemistry next with Professor Palmer Wynne. Questions on bismuth—its extraction, properties, impurities mentioned in the B.P. (selenium and tellurium), and method of preparing the oxynitrate. Why is hydrogen not evolved by the action of HNO_3 ? What is salicylic acid? How prepared? Does it occur naturally (oils of wintergreen and sweet birch) and how may it be extracted from these sources? In physics I was asked how to make a thermometer. I had about a quarter of an hour, and then was told I might sit down.

Mr. Goldby took me in pharmacy. How is spt. ammon. aromat. made? Sketch a suitable apparatus. Preparation of spt. æther. nit. and liq. ethyl. nit., and the percentage of ethyl nitrite in these preparations. Methods for preparation of B.P. injections, strengths of same and preservatives used. What is the general method employed in making an infusion, and how does an infusion differ from a decoction? I mentioned the B.P. decoctions, answered about a dozen strengths of potent preparations, and then sat down.

Botany did not occupy much time. Plants for recognition were *Atropa Belladonna*, *Aconitum Napellus*, white dead nettle, and snapdragon. Natural orders of these and *Colchicum autumnale*, and then a few questions on carbon assimilation and transpiration. One slide (leaf of pinus) to recognise under the microscope, and I had finished.

Materia medica was my last subject, and Mr. Wright did not trouble me much. I was first shown a drawer containing cubeb fruits, cassia buds, and something else. The last I

failed to recognise. It looked like a mixture of small pimento fruits with portions of the rachis of the genuine article. Aconite root, three varieties, quite characteristic. Then came benzoin, belladonna, and marshmallow roots, and two kinds of guaiacum resin—one in small nodules and the other in a large irregular mass. I was asked the reason for the difference in form, and said that probably the small nodules had exuded spontaneously, while the other had been obtained by the application of heat to the logs in the usual manner. I had to give the botanical source of most of these and the B.P. tests for genuine cubebs and guaiacum resin.

I "funkt" ten minutes until my name was called. I saw the blue paper and knew I was all right. Then came the congratulations of the President, and having left my autograph I stepped outside and sent off a few telegrams.

All the examiners were very considerate, and, thought I, "The Minor isn't so fearful, after all."

NEMO.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, November 4.

Society of Chemical Industry, London Section. Burlington House, Piccadilly, W., at 8 P.M. Messrs. C. Bergtheil and R. V. Briggs on "The Determination of Indigotin in Indigo-yielding Plants," and Messrs. R. Gaunt, F. Thomas, and W. P. Bloxam on "The Analysis of Indigo (Part III.) and of the Dried Leaves of *Indigofera Arrecta* and *I. sumatrana*."

Wednesday, November 6.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.
Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 P.M. Council-meeting.
London Chemists' Association, 17 Bloomsbury Square, W.C., at 4 P.M. Meeting, at which Mr. T. H. W. Idris, M.P., will be present.
Leeds Chemists' Association. Annual dinner.
Birkenhead and Wirral Chemists' Association, Town Liberal Club, Cloughton Road. Whist-drive.
Stockport Chemists' Association, County Restaurant, St. Petersgate, at 8 P.M. Social evening.

Thursday, November 7.

Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 P.M. The following papers will be communicated: "Gaseous Nitrogen Trioxide," by Mr. H. B. Baker and Miss M. Baker; "The Atomic Weight of Tellurium," by Messrs. H. B. Baker and A. H. Bennett; "The Isomerism of the Double Sulphites of Sodium and Potassium," by Mr. M. H. Godby; "Studies in the Camphane Series, Part XXIV., Camphoryldithiocarbamic Acid and Camphorylthiocarbimide," by Dr. M. O. Forster and Mr. T. Jackson; "The Vapour Pressures of Triethylamine, of Sym-trimethylpyridine, and their Mixtures with Water," and "Liquid Triethylamine," by Mr. R. T. Lattey; "The Action of Sulphuretted Hydrogen on Solutions of Sodium Hydrosulphite," by Mr. F. S. Sinnatt; "The Alkyl Compounds of Gold, Diethylauric Bromide—Preliminary Note," by Professor W. J. Pope and Mr. C. S. Gieson; "The Constitution of Homoperiodictol," by Dr. F. B. Power and Mr. F. Tutin; "The Interaction of Methylene Chloride and the Sodium Derivative of Ethyl Malonate," by Mr. F. Tutin; "Preparation of Aliphatic Nitro-compounds by the Interaction of the Alkyl Iodides and Mercurous Nitrite," by Professor P. C. Ray and Mr. P. Neogi; "Some Mercury Derivatives of Camphor," by Messrs. J. E. Marsh and R. de J. F. Struthers; "Contribution to the Chemistry of the Terpenes—II. The Oxidation of Limonene with Chromylchloride," by Professor G. G. Henderson.

Association of Women Pharmacists, 17 Bloomsbury Square, London, W.C., at 8 P.M. Annual meeting, when an address will be delivered by Miss Maynard on "Ourselves: An Analysis."

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Mr. W. Hales on "The Business-side of Modern Pharmacy."

Poor-law Dispensers' Association, Board Room of the Strand Union Offices, 29 Maiden Lane, Covent Garden, London, W.C., at 8 P.M. Annual general meeting.

Great Yarmouth Pharmaceutical Association, 156 King Street, at 8 P.M. Monthly meeting.

Brighton Association of Pharmacy, 122 King's Road, at 9 P.M. Ordinary meeting.

Friday, November 8.

Burgoyne Burbidges' Cricket Club, Broad Street Restaurant, London, E.C. Annual dinner.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

CULPEPER'S "London Dispensatory," 1653; what offers? Wanted, dental instruments, materials, books. NEWBIDDING, JUN., Duns, N.B.

"C. & D.," unbound, Vols. 37 to 57, July 1890 to December 1900, advertisement sheets removed, 2s. 6d. per year, carriage forward. VERTUE, 153 Felixstowe Road, Ipswich.

"CHEMIST AND DRUGGISTS," "Pharmaceutical Journals," "Dental Journal," "Review of Reviews," "Wide World," "Royal Magazine"; bound or unbound; cheap; send offers. JONES, 24 Bangor Street, Port Dinorwic.

DRUGS AND CHEMICALS.

OLEUM Theobrom., 16 lb., unwrapped; what offers, whole or part? MILNE, Chemist, Trinity, Edinburgh.

SOD. pot. tart., 8 cwt. in 2 tin-lined cases, fresh, unopened; offers. MENDEL, Kingsbury Photo Works, St. Albans, Herts.

EIGHT fluid ounces of finest ess. bergamot for 7s. 6d., or 1-lb. bottle for 15s., carriage paid. A. F. COLLIS, 11 Abbey Churchyard, Bath.

14 LB. powdered cochineal, 2s. 4d. lb.; 4 lb. oil cubebs, 5s. lb.; 14 lb. powdered cubebs, 8½d. lb.; carriage paid. CAMPBELL, 306 Kirkstall Road, Leeds.

OVERSTOCKED.—10 lb. chlorodyne, 2s. lb., B.P. 1885; also 20 lb. for lozeng making, without morphia, at 1s. 3d. lb., carriage paid. W. PRATT, 1 Westgate, Cleckheaton.

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FORMULÆ.

WHITE oils, inseparable, equal in effect to any on the market, cost 3d. per lb.; bronchitis mixture, unequalled for young, specific for aged, cost 1s. gal.; 2s. 6d. each recipe, 4s. the two. BOND, 92 High Street, Woodside Park, N.

OPTICAL AND PHOTOGRAPHIC.

TEN pkts. Imp. flash-light, ½-plates; 10 ditto Imp. and Paget P.O.P., glossy, cabinet; all new, £1. 223/9, Office of this Paper.

AUTOCHROME plates, 9 cm. by 12 cm., box of 4, with instructions, post free, 5s. per box. CAVE, Chemist, Southport.

SURPLUS stock of eyeglasses, in good order, from 2s. 6d. to 5s. 6d., assorted; cheap. "M. L.," 3 Clifton Road, Maida Vale, W.

½-PLATE Lancaster Royal instantograph, RR lens, triple extension, 5 DD slides, tripod, shutter, almost new, cost £4 11s. 6d., approval willingly; cash, 50s., or best offer. BERG, Chemist, Hatherleigh, Devon.

"SANDERSON JUNIOR" ½-plate hand camera, Busch rapid symmetrical lens, Unicum shutter, 6 double dark slides, Barnet ortho-screen, leather case to hold all; has not exposed a dozen plates; cost £6 15s.; what offers? BERNARD COLLITT, Eastbourne Terrace, Gainsboro'.

PROPRIETARY ARTICLES.

TWO doz. each 7½d. and 1s. 1½d. Belton's Busy Bees, 4s. and 6s. doz.; one doz. Sandon's embrocation, 15s.; all fresh and clean. PADLEY, Wooler, Northumberland.

OVERSTOCKED.—3 doz. 1s. Ozonia, 7s. 9d. doz.; 3 2s. 6d. Oatine cream, 5s. 6d.; 4 1s. 3d. ditto, 3s. 8d.; carriage paid. "CHEMIST," 261 Dewsbury Road, Leeds.

SHARES.

SHARES for Sale.—See p. 68.

SHOP FITTINGS.

NATIONAL cash register (½d. to £3), new condition, used one year; cost £53; price £35. Apply, "FITTINGS," 295 High Road, Kilburn, N.W.

COUNTER, in 2 portions, about 15 ft. long, well fitted with spacious drawers (2 for slip labels); 1-gal. carboy. "CHEM.," 16 Carlyle Road, Birkdale.

MAHOGANY nest drawers, shelving over, glass labels and knobs, mahogany counter, dispensing-screen, bent-glass counter-case, perfume case and desk, mahogany tooth-brush case, 8-ft. wall-case, 100 stock bottles, ointment-jars; price £42 10s. F. W. SMITH, Belgrave Terrace, Leeds.

MISCELLANEOUS.

GOOD cinematograph films, 1½d. and 2d. per foot. GLOVER, Chemist, St. Helens.

DENTAL-CHAIR for sale, cheap. DENT, 4 Chatsworth Road, Stratford, London.

THREE 40-gal. tanks, with taps; carboys; patents, drugs; returnable list. NOBLE, Chemist, Peterboro'.

FIVE Para rubber bandages, offers; 4 1s. 1½d. Alcock's corn-shields, 2s. 6d. IDENDEN, Chemist, Barnstaple.

THREE 1 lb. ess. limonis, extra super; 3 doz. Kceue's corn cure, etc.; cash or exchange. COOPER'S Drug-stores, Wimbeldon.

24 STONE personal weighing and measuring machine, mahogany frame, good order, 37s. 6d. 68 Midland Road, Bedford.

ABOUT cwt. oleum eucalypti glob., B.P.; what offers? Becker's balances, £2; quarter cost. STEAD, 411 Edgware Road, W.

EECKER'S chemical balances, box gramme weights; Quain's Dictionary, 6 parts; microscope and slides. Particulars, FISHER, Chemist, Wigton.

BATH, indiarubber, portable, 36 in., in first-rate condition; air-cushion, circular, sound, been little used; offered cheap. Particulars, GILLIATT, Boston, Lincs.

WANTED.

A 3-gr. pill machine. J. JACKSON, 6 Trafalgar Street, Oldham, Lanes. OIL peppermint, vanillin, coumarin, surplus stock. Offers to 224/15, Office of this Paper.

"PHARMACEUTICAL FORMULAS," good condition. State price, "E.," 42 Cabra Park, Dublin.

SPARK coil; second-hand, about 6 in.; must be cheap. METCALFE, 118 Wimslow Road, Manchester.

LINEEL liniment, 13½d. size; must be clean and in perfect condition. 217/6, Office of this Paper.

ODD lot perfume bottles, corbyns, sifter and mixer, and small copper pan. Particulars to 224/571, Office of this Paper.

RECESS shop-rounds, oxygen cylinders, maroon jars, cachet machine, moulds, B.P., Martindale, P.J. Formulæ. JACKLIN, Ashley Road, Hale, Cheshire.

"CHEMIST AND DRUGGIST," 1859 to 1867 inclusive, 1882 to 1894 inclusive, or complete set; Proceedings British Pharmaceutical Conference, 1864 to 1869 inclusive; "Chemical Gazette," "Chemical News," and other chemical and pharmaceutical journals in lots. Offers to 203/39, Office of this Paper.

BOOKS wanted, modern editions.—Attfield, B.P., Clowes-Coleman, Corbin-Stewart, Ganot, Everett, Greenish, Iuce, Lowson, Lucas, Luff, Mitchell-Bruce, Muter, Newth, Pereira, Perkin-Kipping, Pharmacopædia, Southall, Squire, Whittall, and others; send prepaid; cash value per return. GOWER, Bookseller, Waterloo, Liverpool.

LOCUM or Temporary Manager; disengaged. Bates, Chemist, 53 Lexden Road, Colchester.

LOCUM; qualified; excellent references; disengaged. "Caius," 8 Sedlescombe Road, Fulham, S.W.

MANAGER or Locum; married; indoors; first-class experience. "Alpha," 2 Beach Lanes, Shoreham.

JUNIOR; 20; Photography, Dispensing; good references. "J. K.," 165 Cheetham Hill Road, Manchester.

ITALIAN Chemist, speaking French; one year in London; disengaged. 217/19, Office of this Paper.

DISPENSER or Chemist's Assistant; 33; good references. "Rhei," 65 Warwick Street, Manchester.

DISPENSING and Bookkeeping; unqualified; part-time or full. "H. S.," Blanches, St. Martin's, Guernsey.

MANAGER or Locum; sound experience; Prescriber; Extractor. "Chemist," 53 Hewitt Avenue, Noel Park, N.

ASSISTANT; disengaged; unqualified; 6½ years' experience; outdoors. "Aspirin," 58 Selwyn Street, Liverpool.

UNQUALIFIED; 30; used to management; reliable; shortly disengaged; with good Photographic experience; would entertain Locum; abstainer. Bailey, 55 Old Steine, Brighton.

BRANCH or Assistant; good Prescriber, Extractor, and Salesman; capable, active, reliable; good references; disengaged; unqualified. "Statim," 9 Bradgate Terrace, Loughboro' Road, Leicester.

WHOLESALE.

UNQUALIFIED; 40; experienced; Wholesale or Retail; would travel. Holmes, 3 Oxford Street, Sheffield.

PACKER; Patents; Sundries; 5 years' experience; aged 26. "W. J.," 16 Runham Street, Walworth, S.E.

SITUATION required; good Wholesale experience, also Retail; good references; aged 29. 237/36, Office of this Paper.

TRAVELLER, calling on Chemists, requires Side-line; England, Ireland, and Wales covered. Apply, "Quinine" (20/56), Office of this Paper.

MAN; 28; Wet or Dry Counter; 2 years' experience in Laboratory; used to packing. "B.," 34 Guinness Buildings, Columbia Road, Hackney Road, N.E.

YOUNG man seeks situation in Wholesale; 7 years' experience of Packing and Stockkeeping. "Packer," 6 Manners Street, York Road, Lambeth, S.E.

GENTLEMAN (25), good education and address, smart appearance, 5 years Retail, would like position as Representative. 241/10, Office of this Paper.

ANALYTICAL Chemist, fully qualified, desires post in Laboratory or as Works Chemist; highest references. "A. P.," o/o Hon. Sec., 55 Bryanston Street, W.

AS Representative; well known, and with good connection in South Wales, etc.; closely identified with original Counter Specialities. "D. H." (236/12), Office of this Paper.

WHOLESALE, Retail, or Mixed; unqualified; 27; 12 years' experience; good clerk; accustomed to Travelling; good references; abstainer. Day (237/22), Office of this Paper.

POSITION desired in London Wholesale house; experienced in all its branches; accustomed to control; good Stockkeeper; Stock-taker; manufacture of Galenicals, etc. "Folia" (235/21), Office of this Paper.

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WHOLESALE; situation required as Wet Counter Assistant; good experience in Pill making and Pearl coating; samples forwarded; 8 years' general experience; 22; willing and energetic. 236/33, Office of this Paper.

A YOUNG gentleman, with Office and Stores in centre of Cardiff, with connections amongst Chemists, etc., wishes to Represent a first-class London firm in Sundries, Proprietary goods, etc. Address, (238/7), Office of this Paper.

LONDON.—Traveller, having old-established connection with Chemists' Stores, etc., is open to take another commission for a good house for Eau de Cologne, Toilet Soap, etc. "Londona" (233/13), Office of this Paper.

TRAVELLER, qualified Chemist, experienced, energetic, and successful, with excellent selling record and connection, requires engagement by good Drug or other house; intimate knowledge Drug and allied trades, and first-class references. "Vivum" (238/31), Office of this Paper.

A PHARMACEUTICAL Chemist, of good social position, residing in the Eastern Counties, and having much leisure during winter months, would be glad to hear from any first-class firm who might wish to avail themselves of such services as could be rendered by a really good man. Apply, in first instance, to "East Anglia" (24/41), Office of this Paper.

TO Wholesale Druggists.—Experienced Traveller desires the representation of Drug house and others doing with Chemists, Sundries, Lozenges, Brushes, Soap, etc., to live in a town to be mentioned; have show-room for samples open weekly, advertiser working adjoining counties; salary by commission, or small salary; strictly confidential. 236/37, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, London, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—20 Apollinaris Ordinary, £5 16s. 3d.; 200 Camwal Ordinary, 4s. 9d.; 100 Castner-Kellner, 28s. 6d. c.d.; 100 Bovril Ordinary, 21s. 3d.; 200 Idris "A" Ordinary, 21s. 3d.; 100 "A" Preference, 19s. 6d.; 100 G. B. Kent Preference, 17s.; 100 Mazawattee Ordinary, 7s. 3d.; 100 J. Knight Ordinary, 18s. 6d.; 150 A. J. White Preference, 11s. 3d.; 100 Southall Bros. Preference, 23s. 3d.; 5 Wickens Pease £5 Preference, 86s. 3d., 100 Ordinary, 46s. 9d.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

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TO CHEMISTS.—Complete Shop of Second-hand Chemist's Fittings, good condition; 24 ft. drug-fitting, drawers, and mirror backs; 18 ft. wall-casing, some mirror backs; 8-ft. wall-case, mirror backs; window-enclosure, plate-glass mirror backs, plate-glass shelves, American carboys, mahogany and plate-glass shop front, circular returns; must be cleared; room wanted; bargains. Mills, Chemist's Shop Fitter, Shop-front Builder, Steam Works, 163-5 Old Street, London, E.C.

SECOND-HAND CHEMIST'S FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO.**, 262 OLD STREET, LONDON, E.C.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND).—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. **MATTHEWS, CHEMISTS' FITTER**, 14 and 16 MANCHESTER STREET, LIVERPOOL.

BARGAINS (Second-hand).—12-ft. drug-fitting, £11 5s.; 6-ft. screen, £5; 5-ft. plate counter-case, 57s. 6d.; 6 ft. mahogany top counter, 45s.; 8-ft. wall-case, £5; 10-ft. glass-fronted counter, £5. Note.—See our Limerick competition, p. 4, last week's CHEMIST AND DRUGGIST. WRITE TO US FOR PARTICULARS. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

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A London Chemist writing about me in "Business Success" says: "Chemists would do well to consult Bernard Slack, who, I believe, thinks all day and dreams all night of Business Increasing Notions." Whether you have seen my former Booklets or not, don't fail to ask (a post-card will do) for the latest one, "Queries and Answers," concerning the Business Increasing Methods of

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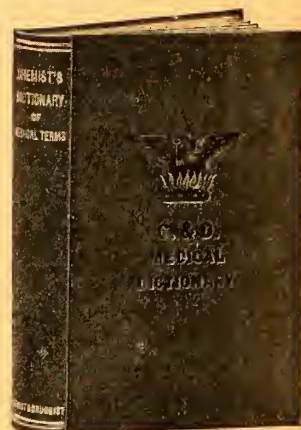
College Notes.

FOOTBALL.—The South of England College of Pharmacy eleven played the Westminster College of Pharmacy team at Acton on Saturday, November 2, and the game resulted in a win for the South of England by 15 goals to 2. The feature of the game was the fine forward play of the winning team. Goals were scored by Shackleton (5), Freeman (4), Tickell (2), Thwaites (captain), Watson, Smith, and Bishop.

LONDON COLLEGE F.C. v. SQUARE F.C.—This popular fixture in the Inter-Pharmacy Football League, took place on the Orient Ground at Shepherd's Bush on November 2. Play opened evenly, and gradually became more exciting, until at half-time the scores were London 2, Square 0. On resuming, the Square attacked strongly for some ten minutes, and put in some good combined work, which culminated in the scoring of their first goal. London replied with another. The Square returned the compliment, and an interesting encounter terminated in a win for London by 3 goals to 2.

A Book to Buy.

THIS reduced facsimile of the "Chemists' Dictionary of Medical Terms and Treatment" serves to show that it differs in form from other books of the C. & D. series. It measures 5½ in. by 3½ in., and contains fully 280 printed pages. There is no medical dictionary so compact which gives so much up-to-date information. It goes straight to the point—which is what chemists most need when they are asked questions by customers. The Dictionary is published at 2s. 6d. net, or free by post for 2s. 8d. from the C. & D. office, 42 Cannon Street, E.C. It may also be obtained from any of the undernoted firms, each of whom holds stock of the book and supplies to account at the published prices:



Ayrton, Saunders & Kemp, Ltd., Liverpool.
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James Woolley, Sons & Co., Ltd., Manchester.
Wilkinson & Simpson, Ltd., Newcastle-on-Tyne.

Recent Wills.

MR. JOSEPH FARR, of Yaxley, Huntingdon, chemist and druggist, who died on May 3, left estate valued at 1,115l. 3s. 3d.

MR. FREDERICK NIELD, of the firm of Messrs. Richard Nield & Sons, wholesale druggists, who died on September 6, left estate valued at 600l. 8s. 6d. gross and at 487l. 2s. 6d. net.

MR. GEORGE HIRST, Liversedge, Yorks, mineral-water manufacturer, who died on August 28, aged seventy-one years, left estate of the gross value of 1,438l. 1s. 4d. and 1,363l. 3s. 6d. net.

MR. CHAS. LEWIS REDWOOD, fourth son of the late Professor Redwood, a director of the Pretoria Estates, Ltd., who died on September 24, left estate of the gross value of 2,512l. 19s. 7d. and 2,262l. 17s. 3d. net.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

(From the "Trade-marks Journal," October 16, 1907.)

- "IMPERIAL"; for photographic plates and films. By the Imperial Dry-plate Co., Ltd., Ashford Road, Cricklewood, N.W. 293,654.
- "WELLINGTON" plates; for photographic dry-plates. By Wellington & Ward, The Elms, Shenley Road, Elstree, Herts. 294,456.
- "TARGET" on design of a target; for chemicals. By Joshua Rea & Sons, Collingwood Street, Liverpool. 294,912.
- "RAYOLENE"; for all goods in Class 1. By the Decorators' Supply Stores, 178A and 180A Lytham Road, South Shore, Blackpool. 296,396.
- "RAINBOW"; for chemical manures. By A. W. Warrington, Craven Lodge, Craven Road, Rainhill, near Liverpool. 295,532.
- "ASPLINTO"; for embrocations and lotions in Class 2. By John Askham, 45 Cadogan Place, Sloane Street, W. 295,575.
- "CARBITON"; for a disinfectant. By Joseph Firminger, 63 Eltham Street, Walworth, S.E. 296,326.
- "INDYSEPSO"; for tablets, pills, powders. By St. George Mfg. Co., 269 Broadway, New York, U.S.A. 295,355.
- "CUPREMA"; for medicines. By the Bow Drug-stores, 39 Devons Road, Bow, E. 295,473.
- "ZANPA"; for medicines. By James Robinson, 66 Moncrieffe Street, Bolton. 295,477.
- "EMANOSAL"; for chemicals. By Farbwerke vorm. Meister, Lucius & Brüning, Hoechst a/Main, Germany. 295,488.
- "NIK-O-TYME"; for an ointment. By Wm. Jennings, 349 Ringway Road, Hale, Cheshire. 295,523.
- "UANDA"; for indigestion and liver tonics. By Jacob Myers, 48 Donegall Street, Belfast. 295,603.
- "ALVIDS"; for chemicals. By Alfred Bishop, Ltd., 48 Spelman Street, London, N.E. 295,702.
- "RUMOLEO"; for chemicals. By Alfred Bishop, Ltd., 48 Spelman Street, London, N.E. 295,703.
- "GINGAMENT"; for chemicals. By Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. 295,733.
- "KNOSKA"; for all goods in Class 3. By H. R. Hulbert, 74 Western Road, Brighton. 296,000.
- "NASTIN"; for a serum for leprosy and tuberculosis. By Kalle & Co., Akt. Ges., 23 Rheinstrasse, Biebrich-on-the-Rhine, Germany. 295,383.
- "HYDRIOL"; for a filtering-apparatus. By Gustav Kindermann, 27 Birkenallee, Stettin, Germany. 295,422.
- "MARCO"; for inks in Class 39. By John Garle & Co., Sanctuary House, Tothill Street, Westminster, S.W. 295,429.
- "KOH-I-NOOR"; for photographic papers. By Photochemische Fabrik Risse, ges. m.b.H., Weibacherstrasse, Flörsheim-on-Main, Germany. 295,646.
- "LI-Q"; for food-substances. By Isaac Booth & Son, 58-64 Mulberry Street, Hulme, Manchester. 294,559.
- "VINDEVIE"; for non-alcoholic, non-aërated and non-medical beverage. By Schweppes, Ltd., 49 Pall Mall, S.W. 295,484.
- "ANGOSTURA BITTERS"; for bitters. By Dr. J. G. B. Sievert & Hijos, Port of Spain, Trinidad, West Indies. 285,273.
- "FLUENZA"; for all goods in Class 44. By Merchant & Co., 55, 57, and 59 Shakespeare Street, Southport. 289,094.
- "SOURCE BONNEVIE" on reproduction of label for a natural mineral water. By S. A. des Eaux Minérales, d'Evian-les-Bains, 31 rue Lafayette, Paris. 293,557.
- "ON'ALCO"; for mineral and aërated waters. By F. Hartmann, 1 and 2 Bahnhofstrasse, Detmold, Germany. 293,999.
- "TRAYDERS"; for aërated and mineral waters. By Belfast Mineral-water Co., Ltd., York Road Factory, York Road, Belfast. 295,109.
- "BASKO"; for an aërated beverage. By E. P. Shaw & Co., Ltd., West Riding Soda-water Manufactory, City Road, Wakefield. 294,333.
- "POPPY"; for laundry-starch. By White & Coloured Liquid Starch Co., Ltd., Eagle Chemical-works, New Lane, Oswaldtwistle. 295,467.

- "COMBECK"; for compound starch. By Skilbeck Bros., 205 Upper Thames Street, E.C. 295,674.
- "BENZOLITE"; for all goods in Class 47. By S. Bowley & Son, Wellington Works, Battersea Bridge, S.W. 296,134.
- "ROXITE"; for a laundry stiffening-preparation. By H. J. Gardiner, 90 Cannon Street, London, E.C. 296,186.
- "TRILENE"; for a hair-preparation. By W. H. Hollamby, Park Villas, Heathfield, Sussex. 290,861.
- "LUVAL"; for perfumery. By J. B. Shattock, The Pharmacy, Prospect Street, Lancaster. 295,531.
- "EFFECTINE"; for perfumery. By C. Ripley & Co., 140 High Road, Chiswick, S.W. 295,862.
- "EKILA"; for perfumery. By S. F. Goss, Ltd., 460 Oxford Street, W. 295,833.
- "ULSTROL"; for perfumery. By Davidson & Hardy, 20 Castle Place, Belfast. 295,921.
- "BERMO"; for liquid cement. By McIntosh, Wilson & Co., 35 Aldermanbury, London, E.C. 295,825.
- "LUOMA"; for furniture-polish. By Richard Martin Clack, 5 Clarendon Villas, Bath. 296,117.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, November 11.

Derby Chemists' Association, Bell Hotel, at 9 p.m. Annual meeting.

Tuesday, November 12.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 8 p.m. Discussion on the "British Pharmaceutical Codex," opened by Mr. C. A. Hill and Mr. R. H. Parker.

Midland Pharmaceutical Association, Grand Hotel, Birmingham. Inaugural meeting at 8 p.m. Reception and address by the President (Mr. A. W. Southall). Evening dress optional.

Bradford Chemists' Association, Royal Hotel, Darley Street, at 9 p.m. Mr. John Gordon on "An Hour with John Burns."

Institute of Hygiene, 34 Devonshire Street, London, W., at 3.30 p.m. Dr. Schofield on "The Influence of Mind on Health."

Royal Colonial Institute, Whitehall Rooms, London, S.W., at 8 p.m. Mr. Richard Jebb on "Twelve Months of Imperial Evolution."

Wednesday, November 13.

Plymouth, Devonport, Stonehouse and District Chemists' Association. Junior Section. At 3.15 p.m. Lecture by Mr. W. Gwillim on "Infusions and Decoctions."

Manchester Pharmaceutical Association, Victoria Hotel, at 7.30 p.m. Discussion on trade-matters, opened by Mr. F. W. Bates.

Thursday, November 14.

Society of Chemist-Opticians, St. Bride Institute, Bride Lane, Ludgate Circus, London, E.C., at 8 p.m. Mr. W. H. Crosland on "A Few Notes on some of My Cases."

Bath Pharmaceutical Association. Smoking-room, Literary Institution, at 8.15 p.m. Mr. A. H. Cooper on "Field Botany."

Glasgow and West of Scotland Chemists' Association, 94 West Regent Street, Glasgow, at 8.30 p.m. Mr. C. F. Henry on "The Sphere of the Pharmacist."

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 p.m. Mr. Harold Deane on "Agricultural Chemistry."

Midland Optical Society, Acorn Hotel, Temple Street, Birmingham, at 8 p.m. Mr. J. H. Sutcliffe on "A Practical Application of Keratometry."

West Ham Chemists' Association, Earlham Hall, Forest Gate, E., at 7 p.m. Mr. E. T. Brewis on "A Talk about Medicinal Plants."

North Staffordshire Chemists' Association, Roebuck Hotel, Stoke-on-Trent, at 8 p.m. Discussion on "The Education of the Pharmacist," opened by Mr. Mellor.

Friday, November 15.

Bournemouth Pharmaceutical Association, Gervis Hall Restaurant, Gervis Place, at 8.30 p.m. General meeting and election of officers.

The annual prize distribution and conversazione of the students of the Northampton Polytechnic Institute, St. John Street, Clerkenwell, London, E.C., will be held on November 29 and 30. The Duke of Connaught is to distribute the prizes, and the whole of the building will be on view.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their *bona-fides*.

We again call the attention of those who use this column for the sale or purchase of goods to the desirability of using our Deposit System. Some forward goods before they receive money for them, and others forward money to advertisers before they have even seen the goods. Disappointment in such circumstances is bound to happen now and then, and it is to prevent this, as well as to check fraud, that our Deposit System was instituted.

The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 6d. is charged by us on any transaction of 3*l.* or less, and 1*s.* if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank, Ltd."

FOR DISPOSAL.

APPARATUS.

FOR sale, No. 3 drug-mill; cheap. Offers to COMYNS, Carshalton.
 GARDINER'S mixer for sale. RAYBOLD, Reform Works, Dudley.
 MIXER and sifter, F and L, by best makers, perfect order, cost £20; will accept £10 f.o.r. R. VAUGHAN, 15 Hesse Terrace, Leeds.

BOOKS AND PERIODICALS.

"MODERN PHYSICIAN," Wilson's (5 vols.), unsoiled, 30*s.*, carriage paid. 232/35, Office of this Paper.
 "CHEMIST AND DRUGGISTS," "Pharmaceutical Journals," "Dental Journal," "Review of Reviews," "Wide World," "Royal Magazine"; bound or unbound; cheap; send offers. JONES, 24 Bangor Street, Port Dinorwic.

DRUGS AND CHEMICALS.

RUSSIAN isinglass, 7 lb.; what offers? Samples sent. BETA, 22 Leasowe Road, Wallasey, Cheshire.
 TWO Winchester's ol. lavand. ang. (unopened), purchased August 1900 from Duncan Flockhart; offers wanted for whole or part. BUCKLE, 12 Margory Street, Carlisle.
 OVERSTOCKED.—10 lb. chlorodyne, 2*s.* lb., B.P. 1885; also 20 lb. for lozenge making, without morphia, at 1*s.* 3*d.* lb., carriage paid. W. PRATT, 1 Westgate, Cleckheaton.
 ONE-LB. bts. ess. bergam. ital. super., 1½ lb. liq. opii sedativus (B. H. & Co.'s), 2 doz. gum opii Egypt (B. H. & Co.'s); what offers? "CHEMIST," 141 St. James's Street, Burnley.
 OVERSTOCKED.—3 oz. pulv. opii tunc., 4*s.* 6*d.*; 2 oz. morphia acet., 18*s.*; 1 oz. morphia hydrochlor., 9*s.*; ½ oz. morphia tart., 5*s.*; 1 dram codeina, 2*s.*; ½ oz. atropin sulph., 4*s.* 236/38, Office of this Paper.

FORMULÆ.

RECIPE for Worcester sauce, 4*d.* gal. FRAME, 42 Vartry Road, London, N.

OPTICAL AND PHOTOGRAPHIC.

BARGAIN.—½-plate focussing Hanover camera, with Cooke (Series III.) lens F 6.5, 6 D.D. slides, mahogany and aluminium, waterproof case, £4 4*s.*, approval. TORRENS, Youghal.

PROPRIETARY ARTICLES.

OVERSTOCKED.—3 2*s.* 6*d.* Oatine cream, 5*s.* 3*d.*; 3 1*s.* 3*d.* ditto, 3*s.* 6*d.* WAITE, 261 Dewsbury Road, Leeds.
 CHEMIST'S emulsion, clean and new, 7½ doz. 10½*d.*, 1 doz. 1*s.* 6*d.*; offers wanted. I. STOUT, Chemist, Tyldesley.

SHARES.

SHARES for Sale.—See p. 61.
 OFFERS wanted for 10 £5 5 per cent. preference shares, Evans, Sons, Lescher & Webb, Ltd. 238/34, Office of this Paper.

MISCELLANEOUS.

AERATED-WATER plant; £8; cost £40; nearly new. BIRCH, Chemist, Barc, Morecambe.
 SECOND-HAND, dental engine, Owen's chair, large bent-glass show-case, fit corner. GILBERT, 145 High Street, Putney.
 DISPENSING-SCREEN case; cheap at £5; carriage paid £4 4*s.*; sketch sent with pleasure. DRUG-STORES, Hill Top, West Bromwich.
 DENTAL chair; also Hedley facepiece and bag, upper and lower teeth specimen; cheap. DENT, 4 Chatsworth Road, Stratford, London.
 TRUSSES, 62, inguinal and scrotal, well-assorted, saleable sizes, clean, from a recently purchased surplus stock; list. SAUNDERS, Peterborough.
 TYPEWRITER (Empire), cost £13 2*s.* 6*d.* last year, accept £8 10*s.* cash; only wants seeing; condition perfect, or cash returned. SLACK, 71 Lodge Road, West Bromwich.
 TWO pill machines, slab top, one reversible plate; 3 compo mortars and pestles, diam. 4½, 5½, 9½ in.; 2 metal (sparklets) maxators; cheap. LEGGETT'S DRUG CO., Liverpool.

WANTED.

PLASTER models for window display. 232/1, Office of this Paper.
 EMULSIFIER, 1 or 2 gals. BROWN, Chemist, Bryan Street, Hanley.
 COAL-GAS cylinder, fittings, gauge, etc. BISSET & GILMOUR, Burntisland.
 SECOND-HAND tablet-machine. Particulars to COMYNS, Chemist, Carshalton.
 PLATINUM purchased; prompt remittance. ROWSELL, 11 Crebor Street, Dulwich.
 MINOR books, chemists' books, for cash or exchange. GOWER, Book-seller, Waterloo, Liverpool.
 HAND camera for ¼ plates; must have good lens. "CHEMIST," 39 Devonshire Avenue, Southsea.
 OPTICAL goods, test-cases, show-cases, spectacles. Particulars to T. A. RONCHETTI, Thornaby-on-Tees.
 A MORTON ophthalmoscope; must be perfect and cheap. J. WILLIAMS, London Hospital College, Whitechapel Road.
 WHITE AND HUMPHREYS' "Pharmacopodia," Clowes and Coleman's "Quantitative Analysis." State edition and price to 235/40, Office of this Paper.

ASSISTANT; qualified; 35; active; good references; Extractor; Prescriber; permanency; salary moderate; comfortable home or outdoors. "R. T.," c/o W. H. Rees, 4 Macleise Road, West Kensington, W.

SCOTSMAN; qualified; tall; 25; character and experience excellent; highly recommended; accustomed to good-class trade with Photography in health resorts. "G." (248/27), Office of this Paper.

WHOLESALE.

QUALIFIED Chemist (27), 11 years' Retail experience, wishes start as Traveller. 1/4, Office of this Paper.

SITUATION required; good Wholesale experience, also Retail; good references; aged 29. 249/12, Office of this Paper.

SITUATION 6½ years' experience in Wholesale and Export; aged 25; disengaged. P. Doran, 45 Carisbrook House, Drummond Street, N.W.

MAN (27) as Clerk, Stockkeeper; useful, any capacity; double-entry bookkeeping; 7 years' Wholesale experience. 1/36, Office of this Paper.

POSITION as Representative; aged 35; 15 years' Retail experience; good education and address. "J. T.," 114 Boundaries Road, Balham, S.W.

PACKING and Stockkeeping; young man seeks situation in Wholesale; 7 years' experience; good references. 6 Manners Street, York Road, Lambeth.

GENTLEMAN, with good experience and connection as Drug Traveller in Africa, wishes engagement with a good house. "D." (250/23), Office of this Paper.

A GENTLEMAN, with a sound connection among the best Chemists in London and suburbs, requires an engagement with a first-class firm. 247/9, Office of this Paper.

QUALIFIED Analytical Chemist (30), speaking German, French, Italian, desires situation in Laboratory or Pharmacy in London. Address, Pernechetti, 65 Guilford Street, W.C.

ADVERTISER (aged 30), thorough knowledge Drugs and Chemicals, desires to represent Wholesale Manufacturing firm; moderate salary and commission; good references. 1/34, Office of this Paper.

LONDON Representative, well known, 10 years' sound connection Chemists and Stores, wishes to Represent good-class house; qualified Chemist; good appearance and address; highest references; excellent salesman. 29/7, Office of this Paper.

A MEDICAL Student (29) would like to Represent a good Wholesale house supplying Drugs, Dressings, Surgical Instruments; Medical Assistant for nearly 14 years; intimately known to very many Doctors in Midlands; highest references. Allen, Moatfield Terrace, Wednesbury.

TRAINED Chemist desires berth; home or abroad; experienced in Research, capable Analyst, with expert knowledge and manufacturing experience of several branches of Applied Chemistry; good business ability; young and excellently recommended. "F. C. S." (2/32), Office of this Paper.

EXPERIENCED Traveller (qualified Chemist), with excellent record as Salesman and connection, wishes represent good Drug or other house; guaranteed increased returns; energetic, reliable, earnest worker; first-rate training and methods; highest references. "Super" (2/15), Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, London, S.E. Telephone 81 Lec.

SHARES FOR SALE (free of commission, subject).—20 Apollinaris Ordinary, £5 13s. 9d.; 100 Claudius Ash Preference, 22s. 3d. c.d.; 100 Bovril Ordinary, 20s. 3d.; 200 Camwal Ordinary, 4s. 9d.; 100 Idris "A" Ordinary 20s. 9d.; 150 "A" Preference 18s. 9d.; 100 G. B. Kent Preference, 16s. 6d.; 60 Mellins Food (Colonial) Preference, 16s. 9d.; 100 J. Knight Ordinary, 18s. 9d.; 100 Peek Frean Preference, 21s. 6d.

WANTED (subject).—Camwal Preference; 100 Claudius Ash Ordinary, 23s. 6d.; Benger's Food Ordinary, 23s.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

SECOND-HAND CHEMIST'S FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 OLD STREET, LONDON, E.C.

STUDY OPTICS

by means of my Correspondence Course. I have students in England, Scotland, Ireland, Wales, and South Africa. Neglect of other work not necessary with my system. Particulars from

G. E. Bamister Practising Optician, BLOXWICH.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND).—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

BARGAINS (Second-hand).—12-ft. drug-fitting, £11 5s.; 6-ft. screen, £5; 5-ft. plate counter-case, 57s. 6d.; 6 ft. mahogany top counter, 45s.; 8-ft. wall-case, £5; 10-ft. glass-fronted counter, £5. Note.—See our Limerick competition, CHEMIST AND DRUGGIST, November 2, page 4. WRITE TO US FOR PARTICULARS. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

SPECIAL LINES IN SECOND-HAND FITTINGS.—6-ft. dispensing-screen, very handsome, £5 10s.; set of 3 plate-glass shelves, 4 ft., with tapped bars and brackets, 42s.; nest of 36 drawers, 50 by 44, 40s.; 10-ft. wall-fixture, with 52 mahogany drawers, with glass labels, shelving, and cornice, £8 10s.; 6-ft. bent front counter-case, £5; 3-ft. plate-glass ditto, 35s.; 10 doz. recess-label shop-rounds, £8 10s.; 144 gold-labelled ditto, £5 15s.; 12 4-lb. recess-labelled shop-rounds, 48s. R. TOMLINSON & SONS, Headquarters for Second-hand Fittings, Bond Street, Birmingham.

WE CAN INCREASE YOUR BUSINESS !!

We are certain of it! The smart up-to-date men are the successful ones to-day. 5/- is not much, but it will relieve you of the trouble of writing your newspaper or handbill advertisement. Bright convincing copy drafted. We are Specialists in Chemists' Advertising and Printing, and in Mail-Order Advertising. We prepare and print booklets, handbills, &c. that will increase your business. Up-to-date good work. Write for terms, and specimens of Christmas Circulars.

ROSS AGENCY, 33 St. Paul's Buildings, Paternoster Row, LONDON.

NEWWEY'S HANDBILLS

are money-makers. They bring more grist to the mill, more customers to your shop, more profit to your till; and the price places them within easy reach of everybody. Now is the time to advertise your winter goods, and Newwey's Handbills will help you. Send a postcard for samples.

MARTIN NEWWEY, 14 New Street, BIRMINGHAM.

3 FOR 1/- POST FREE.

My Window Tickets are Business Bringers and Sale-compelling. I will write you (to your own wording, or send me a label) 3 handsome tickets 7" x 5" for 1s. as a sample. Six for 1s. 6d. Orders in rotation.

C. & D. says: "The cards are well lettered and calculated, from the solidity of the millboard and finish of the surface, to last well."

Mr Alex. Holmes, Chemist, Ramsgate, writes on November 8th: "Please send cards as enclosed order. I was very pleased with last lot; they are very attractive and considerably increase sales."

"SPECIALIST," 237-9, "Chemist and Druggist."

THE CHEMISTS' DICTIONARY OF MEDICAL TERMS AND TREATMENT is the latest C. & D. book. Tells you quickly what you want to know. Price 2s. 6d., or by post 2s. 8d., from the C. & D. Offices, 42 Cannon Street, London, E.C.; may also be obtained from the leading Wholesale houses; put down a copy in your next order.

• • Have You a Young Son • •
or daughter on whose education or apprenticeship you would, if you could afford it, spend £50 a year for a year or two? Let you and I together (for we must work together) endeavour in next 12 months to make £50 or more extra nett profit for this object. You will be happier, your child's future will be more prosperous, and the undersigned will have earned his modest fee and, what he values more, your commendation and doubtless recommendation. Booklet free; send a post-card for it.

BERNARD SLACK, THE ORIGINAL BUSINESS INCREASER, 96 HILL TOP, WEST BROMWICH. Tel. No. 255.

American Notes.

(From the "C. & D." Correspondent.)

THE A.P.H.A.—Messrs. S. A. D. Sheppard and James H. Beal, two prominent officers of the American Pharmaceutical Association, are making vigorous efforts to create an endowment fund of \$25,000 for the purpose of assuring the permanency and future welfare of the organisation. Some large contributions have recently been made, notably by Mr. Frank G. Ryan and Mr. W. O. Allison.

MR. THOMAS H. POTTS, the newly elected President of the National Association of Retail Druggists, was recently given a rousing reception by the druggists of his home city in Philadelphia. It seems that Mr. Potts had lost his watch while in attendance upon the Chicago Convention, and his friends in Philadelphia grasped the occasion to present him with a handsome gold watch, appropriately engraved, to express the appreciation of his townsmen over his election as President of the N.A.R.D.

THE SHERMAN ACT.—The great rallying cry in the economic and industrial sections of pharmacy just now is "Amend the Sherman Act!" The National Association of Retail Druggists, meeting in Chicago, and the National Wholesale Druggists' Association, convening later on in Denver, found that their status during the last year had been seriously affected by the governmental decree and injunction issued against them under the terms of the Federal Sherman law. It was realised that an earnest effort must be made to so amend the Federal law as to permit proper trade agreements between merchants in the wholesale and retail branches of business.

CO-OPERATION.—Of co-operative pharmaceutical concerns established in America during recent years the one which has achieved greatest success is apparently the United Drug Co. of Boston. So prosperous has this company become that two auxiliary companies have been formed—the Drug Merchants of America and the National Cigar-Stands Co. The former is a co-operative buying concern, while the latter is restricted to the purchase and sale of a special line of cigars and tobaccos. The United Drug Co. itself makes and distributes the "Rexall" line of proprietary remedies. Recently the 600 stockholders of these three concerns, located in different parts of the country, met in Boston for their annual meeting, and a very prosperous year was recorded.

THE FOOD AND DRUGS ACT.—Reference has already been made to the fact that twenty-five or more States have followed in the wake of the national Government, and have enacted laws during the past year or two based upon the Federal Food and Drugs Act. The drug trade is slowly waking up to a realisation of the fact, however, that many of the State laws are not what they ought to be. Several of them, for instance, fail to exempt prescriptions and N.F. and U.S.P. preparations from the alcohol and narcotic labelling clause, and thus it will be necessary for the pharmacist, whenever he dispenses a prescription or sells an ounce or two of an official preparation over the counter, to write or print on the label the exact percentage present of alcohol, morphine, cocaine, heroin, cannabis indica, acetanilide, phenacetin, and fifteen or twenty other drugs! Active efforts will be made during the coming legislative season to amend the laws as far as possible.

WILEY'S "POISON SQUADS."—The American newspapers have from time to time waxed very facetious over what have been termed the "poison squads" of Dr. H. W. Wiley, Chief Chemist of the Department of Agriculture in Washington. Dr. Wiley has taken groups of young men and experimented with them for several weeks or months in an effort to discover whether preservatives in foods were harmful or not. His latest plan, just announced, is to feed a "poison squad" with soda syrups and drinks preserved with chemical agents in order to determine whether the Government ought to permit druggists and confectioners to preserve their soda drinks artificially. Soon after the enactment of the Federal Food and Drugs Act the authorities evinced a tendency to taboo the use of preservatives in this direction, but such a howl of protest was sent up that it was decided to make an investigation before drawing the lines too hard and fast.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, November 18.

School of Pharmacy Football and Athletic Club, Crown Room, Holborn Restaurant, London, W.C., at 8 P.M. Annual smoking-concert. Tickets (2s. each) may be obtained from Messrs. Gibson & Arnfield, 17 Bloomsbury Square, W.C.

Tuesday, November 19.

Huddersfield Chemists' Association, Queen Hotel, at 8.45 P.M. Discussion on "Obnoxious Patent Medicines and Advertisements."

Wednesday, November 20.

Pharmaceutical Society of Great Britain, North British Branch, 36 York Place, Edinburgh, at 8.30 P.M. Evening meeting. Inaugural sessional address by Dr. E. A. Schäfer on "The Physiological Effects of Animal Extracts."

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Inaugural address by Sir Stuart Colvin Bayley, K.C.S.I., C.I.E.

Royal Microscopical Society, 20 Hanover Square, London, W., at 8 P.M. Mr. E. W. Nelson on "François Watkins' Microscope," Mr. J. W. Gordon on "Mercury Globules as Test-objects for the Microscope," and Mr. E. Moffat on "Light Filters for Photomicrography."

Leeds Chemists' Association, Grand Central Hotel, at 8 P.M. Paper by Mr. G. W. Worfolk.

Newcastle Chemists' Association, Hotel Métropole, at 8 P.M. Mr. Buckley on "Star-fishes on the North-East Coast."

Western Chemists' Association, Restaurant Frascati, Oxford Street, London, W., at 7 P.M. Annual dinner, at which Dr. W. H. Martindale will preside.

Wolverhampton Chemists' Association, Star and Garter Hotel, at 8.30 P.M. Mr. A. W. Gerrard on "The Manufacture of Iodoform Surgical Dressings."

Cardiff Pharmaceutical Association, County Café, High Street, at 7 P.M. Whist-drive. Tickets (2s. each) from Mr. J. D. Jenkins, Hon. Secretary, 112 Crwys Road.

Cambridge Pharmaceutical Association, Bull Hotel, at 9 P.M. Mr. E. S. Peck on the "British Pharmaceutical Codex."

Plymouth, Devonport, and Stonehouse Chemists' Association, 7 Whimple Street, Plymouth, at 4 P.M. Discussion on the "British Pharmaceutical Codex."

Thursday, November 21.

Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 P.M. The following papers will be communicated: "The Interaction of Metallic Sulphates and Caustic Alkalies" and "The Chemistry of Bordeaux Mixture," by Mr. S. P. U. Pickering; "Aromatic Azoinides, Part III. The Naphthylazoimides and their Nitro-derivatives," by Dr. M. O. Forster and Mr. H. E. Fierz; "Studies of Dynamic Isomerism, Note on the Action of Carbonyl Chloride as an Agent for Arresting Isomeric Change," by Dr. T. M. Lowry and Mr. E. H. Magson; "Emulsions," by Mr. S. P. U. Pickering; "The Electrometric Measurement of the Hydrolysis of the Salts of Anilinium, Ammonium, Aluminium, Chromium, Thallium, Zinc, Magnesium, Cerium, Thorium, Nickel, and Cobalt," by Mr. H. G. Denham.

Nottingham Pharmaceutical Association, Mikado Café, Long Row, at 8.30 P.M. Supper. Tickets (3s. each) from Mr. W. Gill, 207 Radford Road, or Mr. E. E. H. Turton, 2 Chapel Bar.

Chemists' Assistants' Association, 73 Newman Street, London, W., at 9 P.M. Mr. H. C. T. Gardner on "Poisons."

Liverpool Chemists' Association, Royal Institution, at 8 P.M. Mr. Harold Wyatt on "A Glance at the British Pharmaceutical Codex."

The annual dinner of the Sunderland Chemists' Association will be held at the Grand Hotel, Bridge Street, on November 27. Particulars from Mr. R. Anderson, Hon. Secretary, Chester Road West, Sunderland.

The annual dinner of the Plymouth, Devonport, and Stonehouse Chemists' Association will take place at the Swiss Café, Plymouth, on November 27. Tickets may be obtained from the Secretary (Mr. F. A. Spear).

WESTMINSTER COLLEGE OF PHARMACY.—The last botanical excursion for the year will take place at Kew Gardens on Friday, November 22. Tea will be provided at the Rose and Crown Hotel, Kew, at 5 P.M., to be followed by a smoking concert, to which all old students and their friends are cordially invited.

Demerara Doings.

(From the "C. & D." Correspondent.)

BURGLARY.—Messrs. Brodie & Rainer were the victims of another burglary recently, about 30 or 40 lb. of Capstan tobacco being purloined. This is about the tenth haul thieves have made from their premises during the last five or six years.

BUSINESS.—The sugar-extracting season having now commenced, trade, after having been practically stagnant for the last three or four months, has revived. Business is brightening up all round, and we anticipate a very busy Christmas season.

DROUGHT.—For the last two months we have been suffering from a drought, which comes as a great contrast to the eight months' continuous rain we had previously. Consequently ferri aluminas, which is used by the poorer classes for "settling" the canal-water, is in great demand.

MR. E. G. FONSECA has purchased the drug-business lately owned by Messrs. Blunk & Co., in Camp Street, and is carrying it on in conjunction with his business in Water Street. Mr. Fonseca originally commenced his business career in the premises which he has just purchased.

TYPHOID AND DIPHTHERIA are pretty prevalent in Georgetown at present, and the available stock of serums is nearly exhausted. The doctors prefer the American serums, on account of their being more convenient to use; the majority of the packages being supplied with a serum-syringe ready to attach to the bulb.

THE DEMAND FOR QUININE is pretty brisk owing to the enormous increase in the cultivation of rice, the swampy land evidently causing a kind of malarial fever of a lowering type. The Government are now supplying the public with quinine at cost-price, through the medium of the post-offices, and have adopted similar precautions against theft as the Indian Government by colouring the quinine pink.

MR. C. O. RAINER, of Messrs. Brodie & Rainer, returned to the Colony last mail, after a short business-trip to the Mother Country. During his visit he purchased a considerable quantity of fittings for the new store which the firm have recently acquired for a sum of about \$18,000 to \$20,000; the orders for the fittings having been lodged with Messrs. Evans Sons Lescher & Webb, Liverpool, and Messrs. S. Maw, Son & Sons, London.

AMERICAN AND CANADIAN NOSTRUMS are steadily ousting the demand for English, owing to the attractiveness of the packing, the abundant literature, and the enormous advertising. Some English houses persist in attaching the English revenue stamp, which all adds to the value on which duty has to be paid. The American firms, on the other hand, cater in every possible way for the West Indian trade by making their goods as attractive as possible, and give every inducement to the chemist to stock and push them.

Colonial and Foreign News.

MR. YULI CARLOVITCH TREUFELD, the senior pharmacist of St. Petersburg, celebrated the sixtieth year of his pharmaceutical activity on September 14.

SACCHARIN IN AUSTRIA.—On and after January 1, 1908, the manufacture of sweetening agents will come under the Ministry of the Interior, and permission to establish saccharin factories must be obtained from the Minister, while permission to purchase saccharin must be obtained from the local authorities.

YLANG-YLANG CULTIVATION.—In the province of Bien-hon, Cochin China, the cultivation of the ylang-ylang tree has been taken in hand on several estates with satisfactory results. It is officially stated that about two acres planted with 300 trees may give 3,000 kilos. of flowers, which at the least may yield 15 kilos. of essential oil.

AUSTRIAN DENATURED SPIRIT.—A new general denaturing material amending the Austrian spirit-tax has come into force. It is as follows:—A mixture of 19 parts of wood

spirit, 2.5 parts of pyridine base, 2.5 parts of benzol, and 1 part of an additional substance, the composition of which is to be fixed by the Ministry of Finance. The denaturant is to be mixed with the spirit to be denatured in the proportion of 2.5 litres to 100 litres of pure alcohol.

CHEMICAL AND PHARMACEUTICAL GOODS were imported into Russia from Germany during the first half of this year to the extent of 1,810,000 poods, value 4,594,000r., against 1,695,000 poods, value 4,511,000r., in January-June 1906. From England 268,000 poods, value 1,250,000r., were imported, compared with 252,000 poods, value 715,000r., in the first half of last year; and Austria-Hungary sent 48,000 poods, value 168,000r., against 131,000 poods, value 163,000r.

CHEMICAL PRODUCTS IN RUSSIA.—In the course of a report on the trade of Russia during 1906, the German Consul says that the increased Customs duties under the new tariff will stimulate native production in various directions. He states that a large Berlin firm who manufacture technical and pharmaceutical articles acquired a site at Moscow and another in the provinces in order to remove portions of their business to Russia. It is expected that the new factory at Moscow will soon be able to manufacture all kinds of pharmaceutical products.

A PHILANTHROPIC PHARMACIST.—The late Dr. Theodore Schlosser, formerly the owner of a pharmacy in Vienna, who during his lifetime had already given large sums towards creating scholarships for impecunious students of pharmacy, shortly before his death gave to the Pharmaceutical Pension Institute the sum of 425l. (10,000 kronen); in his will he has left a further 10,000 kronen (425l.) to the same Institute; to found scholarships at the Vienna University, 5,200 kronen (221l.); and 1,200 kronen (51l.) to assist needy pharmacists; for the pharmaceutical school of the General Apotheker Verein, 400 kronen (17l.).

RUSSIAN QUICKSILVER.—The production of quicksilver in Russia continues to decrease. The data furnished of the output of the Auerbach Co., which is, says the "Visetnik Finanssoff," the only mercury-smelting concern in Russia, show a practically continuous decline again from the beginning of this year down to the end of July (O.S.). The January production in 1906 was 1,178 poods, against 780 poods in January 1907, while the production for July 1906 and 1907 was 1,000 poods and 589 poods respectively. The total production for the first seven months of this year was 5,177 poods, against 7,817 poods in the corresponding period of 1906. Fears are entertained that the industry will soon be extinct.

CHEMICALS IN ARGENTINA.—Although chemical industry in the Argentine is still in its infancy, yet it is making considerable progress. In Buenos Ayres there are three factories for the production of sulphuric acid, nitric acid, and hydrochloric acids. Another firm of stearine candle makers produce boric acid and borax of which considerable quantities are sent to the province of Jujuy. As yet there are no makers of pharmaceutical and chemical products, as the necessary raw material is not available and wages are very high. Moreover, it is difficult to procure expert assistance. A company which has recently been formed is now establishing a chemical factory at La Boca for the production of tartaric acid, boric acid, carbon bisulphide, and other products for which the raw material can be obtained.

SWISS-GERMAN COMPETITION IN ANILINE DYES.—In the new German commercial treaties which came into force in March 1906 there are still certain clauses which have not as yet taken effect. Among these is the following, which appears in the Swiss-German treaty: "In spite of the obligation of free trade, which was agreed upon at the treaty held in Lucerne on December 10, 1891, between Switzerland and Germany, for aniline and other tar-colouring matter not specially named in the new German general tariff, Germany shall be justified in levying duty on these Swiss exports if before December 31, 1907, Switzerland's patent law has not been altered in such a way as to enable these or similar products, or, in the case of new inventions, the process of production, to be patented." Whether this point has been settled by the recent innovations in the Swiss patent law will be seen at the beginning of 1908.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

BOOKS for Minor; Newth, Remsen, Lowson, etc.; cheap. GODDARD, 70 Dornton Road, Balham.

"MODERN PHYSICIAN," complete edition, by Dr. Andrew Wilson; accept reasonable offer. 248/20, Office of this Paper.

FORMULÆ.

WINTER REQUISITES.—"Maltussine," best cough-cure, splendid lung tonic, pleasant, very profitable; "Floral Cream," non-greasy skin emollient, lovely odour, sells itself; "Cherry Foam," delicious liquid dentifrice, whitens discoloured teeth, imparts fragrance to the breath; "Haireurl," keeps hair in friz, harmless, indiscernible, honestly recommended; "Female Occasional Mixture," most reliable and safe, nothing better sold; "Embralin," creamy inseparable embrocation, kills pain rapidly, one-third price of others; "Vir-ung," vegetable balsamic ointment, specially useful for chilblains, acts instantly; recipes, with full instructions, 2s. 6d. each, 5 for 10s.; samples, 3d. each post free. Tom Brooks, Chemist, Hornsey, London, N. (25th year of advertising).

OPTICAL AND PHOTOGRAPHIC.

$\frac{1}{2}$ -PLATE camera, lens gives beautiful definition, 3 metal dark slides, tripod, 2 printing-frames, condition as new, canvas case, 25s.

CAMERA, 10 by 8, four double-dark slides, mahogany, just been thoroughly overhauled and repolished, £6; approval in both cases; deposit with C. & D. CHARLES CUNLIFFE, Bacup.

PROPRIETARY ARTICLES.

OVERSTOCKED, 78-oz. celerina; reasonable offer accepted. ATKINS, Chemist, Salisbury.

CHEMIST'S emulsion, clean and new, $7\frac{1}{2}$ doz. 10 $\frac{1}{2}$ d., 1 doz. 1s. 6d.; offers wanted. I. STOUT, Chemist, Tyldesley.

SIX 2s. 6d. Dobson's poultry spice, 11 1s. ditto; six 3s. 6d. Blackleg drinks, 12 2s. ditto; half-price. MOSS, Chemist, Ashburton.

ALL carriage paid.—11s. Crosby's Elixir, 7s.; 10s. Rooke's Elixir, 7s. 6d.; 3 doz. Sand's liver-seeds, 4s. doz.; 6 doz. 6d. Eugol tooth-powder, 4s. 3d. doz.; 3 doz. 1s. Eugol tooth-powder, 9s.; 2 doz. 2s. 3d. Oatine, 20s. doz.; 1 doz. 1s. 6d. Eugol dentifrice liquid, 12s. 6d.; 1 doz. Cassell's tablets, 8s. MILLER, 389 High Street, Cheltenham.

SHARES.

SHARES for Sale.—See p. 65.

CAMWAL preference, 100 shares; dividend due shortly. Offers to 245/31, Office of this Paper.

SHOP FITTINGS.

PART fittings, comprising drawers, counters, dispensing-screen, shelving, etc.; all in good condition; bargain. SAVILL, Portslade, near Brighton.

MAHOGANY tooth-brush case, 3 glass shelves, £1 10s.; perfume-case and desk, mahogany, by Curtis & Son, Leeds, £2 17s. 6d.; bent-glass counter-case, 3 ft. 6 in., mirror back, £2 10s. F. W. SMITH, Belgrave Terrace, Leeds.

MAHOGANY and plate-glass fronted counter, 12 $\frac{1}{2}$ ft., with 40 drawers; 2 6-ft. nests mahogany-fronted drawers, glass labels and knobs; nest strong deal drawers, 9 ft. by 4 ft.; 2 window-enclosures, with 3 large plate-glass mirrors and Venetian-coloured glass; quantity shelving; 100 shop-rounds; the lot £20, or offers. JERSON, Rockingham Street, Sheffield.

9 $\frac{1}{2}$ -FT. run of mahogany-fronted, gold-labelled 50 drawers, with lockers and shelving, nearly new; 80 20- and 40-oz. n.m. and w.m. gold-labelled shop-rounds; 1-gal. 3 2-gal. 2 3-gal. pear-shape earboys; 7 mahogany stands; gallon stone percolator; 5 assorted evaporating dishes; $\frac{1}{2}$ -gal. tincture-press; dentist reflector on stand, with gas bracket; small instruments, drawers, trays, stopping and other tools, and lot of sundries for operating-room. "CHEMIST," 60 Lamb's Conduit Street, London, W.C.

MISCELLANEOUS.

BYFORD'S "Gynaecology," new, 16s.; Easy sign-writer, 4s. 29 Coventry Road, Wavertree, Liverpool.

DENTAL engine, good working order, No. 7 handpiece, price £2 15s. EDWARD, 13 Railway Approach, London Bridge.

DENTAL chair, also "Hedley" transparent face-piece and anæsthetic bag. DEXT, 4 Chatsworth Road, Stratford, London.

AIR-MATRESS and pillow combined, 84 by 50, perfect, slightly soiled; first offer over £2 has it; cost double. ROE, Swallowbeck, Lincoln.

DENTAL ENGINE, second-hand, in good condition, fitted No. 7 handpiece, 65s. GEORGE CHALK, 73 Great Portland Street, London, W.

TRUSSES, 62, inguinal and scrotal, well-assorted, saleable sizes, clean, from a recently purchased surplus stock; list. SAUNDERS, Peterborough.

NITROUS-OXIDE apparatus, 3 50-gal. gas-bottles and stand; Humber motor-cycle, 3 $\frac{1}{2}$ h.p.; 3 doz. 1s. Moseley's Food, 6 doz. 6d. ditto, unsoiled. BESWICK, Chemist, Birmingham.

WANTED.

WOOTTON'S College Minor books, second-hand. State lowest prices, 249/35, Office of this Paper.

SECOND-HAND Vee Dee vibrator. BUCKINGHAM, Aylsham.

MOVING or plaster models for window-display. 251/12, Office of this Paper.

PLATINUM purchased; prompt remittance. ROWSELL, 11 Crebor Street, Dulwich.

MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.

UP-TO-DATE personal weighing-machine wanted; x-ray outfit for part exchange, or sell. WATERHOUSE, Chemist, Uxbridge.

OPTICIAN'S trial-case; also "Pharmaceutical Formulas," Vol. 1; lowest price approx. "H. W." (249/90), Office of this Paper.

MODERN dispensing-screen and counter, all glass front. Give particulars and sketch, O'FARRELL, 81 Morehampton Road, Dublin.

ROSE otto, musk, odd lot of perfume-bottles, benzoic acid, oil peppermint, surplus stock, and sundries. Particulars to 246/25, Office of this Paper.

A SECOND-HAND short beam balance, weighing to 1 milligramme, with box of weights. Give particulars of knife edges, rider beam, etc., to 249/14, Office of this Paper.

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Correspondence in English, French, or German.

MCADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, London, S.E. Telephone 81 Lee.

SHARES FOR SALE (free of commission, subject).—100 Bovril Ordinary, 20s. 3d.; 200 Camwal Ordinary, 4s. 9d.; 100 Claudius Ash Preference, 22s. 3d. cd.; 100 Bengel's Ordinary, 25s. 3d.; 70 Edward Cook Preference, £5 18s. 9d.; 30 Horace Cory Preference, 21s. 3d. cd.; 200 Idris "A" Ordinary 20s. 6d.; 100 "A" Preference 18s. 9d. cd.; 100 G. B. Kent Preference, 17s. cd.; 100 Tower Tea Ordinary, 9s. 6d.; **WANTED** (subject).—100 Claudius Ash Ordinary, 29s. 6d.; 120 Dental Manufacturing, 98s. 3d.; 100 G. B. Kent Preference, 16s.; 200 Lewis & Burrows Ordinary, 4s. 6d.; 100 Virol Ordinary, 6s.

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SECOND-HAND CHEMIST'S FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO., 262 OLD STREET, LONDON, E.C.**

CHEMISTS' SHOP-FITTINGS (SECOND-HAND).—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. **MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.**

SPECIAL LINES IN SECOND-HAND FITTINGS.—6-ft. dispensing-screen, very handsome, £5 10s.; set of 3 plate-glass shelves, 4 ft., with tapped bars and brackets, 42s.; nest of 36 drawers, 50 by 44, 40s.; 10-ft. wall-fixture, with 52 mahogany drawers, with glass labels, shelving, and cornice, £8 10s.; 6-ft. bent front counter-case, £5; 5-ft. plate-glass ditto, 55s.; 10 doz. recess-label shop-rounds, £8 10s.; 144 gold-labelled ditto, £5 15s.; 12 4-lb. recess-labelled shop-jars, 48s. **R. TOMLINSON & SONS, Headquarters for Second-hand Fittings, Bond Street, Birmingham.**

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Please write for Price List; our plating invariably gives long service and much satisfaction; prompt return of all work entrusted to us; free collection and delivery by our vans in London and Suburbs; carriage paid one way on country orders. **Idris & Co., Ltd., PLATING DEPT., 35-43 King's Road, St. Pancras, London, N.W.**

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We are certain of it! The smart up-to-date men are the successful ones to-day. It is not much, but it will relieve you of the trouble of writing your newspaper or handbill advertisement. Bright convincing copy drafted. We are Specialists in Chemists' Advertising and Printing, and in Mail-Order Advertising. We prepare and print booklets, handbills, &c. that will increase your business. Up-to-date good work. Write for terms, and specimens of Christmas Circulars.

ROSS AGENCY, 33 St. Paul's Buildings, Paternoster Row, LONDON.

CHRISTMAS Bargains, ready for immediate despatch: 14-ft. drug-fitting, mirror, poison-cupboard, £13 15s.; 6-ft. mahogany wall-case, £7 15s.; 8-ft. mahogany plate-glass fronted counter, £6 10s.; mahogany and plate-glass perfume-case and desk, mirror back, 55s.; 5-ft. plate-glass counter-case, 57s. 6d.; 6-ft. mahogany top counter, 47s. 6d.; 10-ft. mahogany and glass-fronted counter, 105s.; 6-ft. mahogany and plate-glass screen, mirror backs and bevelled mirror centre, £5 10s.; 5-ft. 6-in. screen and counter, mirror backs and glass shelves, 105s.; 8-ft. wall-case, 100s.; plate-glass tooth-brush case, 50s.; 6-ft. plate-glass counter-case, 65s.; 7-ft. screen, bevelled mirror centre, £5 5s.; 3-ft. mahogany wall-case, 9 ft. high, 84s.; 12-ft. mahogany and glass-fronted counter, £9 15s.; mahogany perfume-case, 30s.; 6-ft. bent plate-glass and mahogany counter-case, mirror back, and trays, £5 10s.; 5-ft. ditto, 35s. Call and see them or write for particulars to **PHILIP JOSEPHS & SONS, LTD., 95 Old Street, London, E.C. Telephone 9057** London Wall. The **RESULT** of our **LIMERICK COMPETITION** will be published in next week's **CHEMIST AND DRUGGIST**.

LIMITED LIABILITY CHEMISTS.

There are many advantages of which I can tell you; therefore trade on these lines. Capital more easily raised, &c. Other departments I have include (none of which are pushed on to my clients) Showcard writing (illustrated), by an artist. These sell goods. Advert. writing at low rates, by myself and advert. writer. Book-keeping taught, or chemists' accounts kept, by expert. Envelope-addressing, Typing and Printing departments. Record Christmas if I help you. Write me.

BERNARD SLACK, WEST BROMWICH.

THE SURREY CHEMICAL COMPANY, LIMITED.

NOTICE IS HEREBY GIVEN that the Creditors of the above-named Company are required on or before the thirty-first day of December 1907 to send their names and addresses and the particulars of their debts or claims, and the names and addresses of their Solicitors, if any, to **WILLIAM HENRY THOMSON, Chartered Accountant, of 43 Cannon Street, London, E.C., the Liquidator** of the said Company, and, if so required, by notice in writing, from the said Liquidator, are by their Solicitors to come in and prove their said Debts or Claims at such time and place as shall be specified in such notice, or in default thereof they will be excluded from the benefit of any distribution made before such debts are proved.

Dated this 13th day of November, 1907.

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THE CHEMISTS' DICTIONARY OF MEDICAL TERMS AND TREATMENT is the latest *C. & D.* book. Tells you quickly what you want to know. Price 2s. 6d., or by post 2s. 8d., from the *C. & D. Offices, 42 Cannon Street, London, E.C.*; may also be obtained from the leading Wholesale houses; put down a copy in your next order.

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You do wish to increase your business, but you have many doubts whether anyone but yourself can do this. You have read this advertisement for about 90 weeks, week by week, and yet you do not send for my booklet.

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Colonial and Foreign News.

THE GERMAN IMPERIAL COURT OF APPEAL has decided that the designation "Doctor of Dental Surgery" may be used, but "American Dentist" is forbidden.

THE LATEST SERUM is that of Privy Councillor Professor Dr. Wassermann, of the Institute for Infectious Diseases at Berlin. It is a serum against botulismus, or sausage-poisoning.

Dz. = DOPPELZENTNER.—A Darmstadt correspondent points out that in the paragraph "Specialities in Germany" (*C. & D.*, November 23, p. 782) the duty refers to 100 kilos. by weight, not "dozens" as stated. In Germany every single article is weighed by the Custom authorities, and the tariff is based solely upon the weight, whether it be lace, pickles, or cattle. The mistake was probably due to the German abbreviation "dz.," which means "doppelzentner"—i.e., double hundredweight, or 200 lb., equal to 100 kilos.

SCHERING MOVING.—It is rumoured that the chemical manufactory formerly E. Schering, of Berlin and Charlottenburg, is about to acquire a large tract of country in the neighbourhood of Dömitz, on the Elbe, in Mecklenburg. At present boring operations are going on, and if water suitable for the requirements of the factory is found the business is to be transferred to Mecklenburg. This position would be excellent for industrial purposes, for it would be possible to construct a private wharf on the Elbe or to arrange a connection with the Dömitz harbour railway.

AN ANCIENT RUSSIAN PHARMACY.—One of the largest and oldest pharmacies of St. Petersburg recently celebrated the 125th anniversary of its foundation. During that time the Sergiewskaia Pharmacy has only four times changed hands. The second owner of the business, whose name was Fürst, founded a fund from which all assistants who have served three years in his pharmacy are paid the cost of their studies at the University of Dorpat. An important laboratory is attached to the pharmacy, where a considerable number of well-known Russian specialities are produced.

EXPORT TRADE.—In connection with the foundation of the "Export Union of German Apothekers and Manufacturers of the Pharmaceutical Industry" (*C. & D.*, November 23, p. 792), it is interesting to note that the U.S. Consul at Cape Town, Mr. Julius G. Lay, proposes to open a commercial information bureau and reading room, the purpose of which is to furnish accurate information, prices, and discounts of as many articles as possible manufactured in the United States for purchasers of American goods in South Africa. To make this a success, he invites American manufacturers to send catalogues with lowest prices and exact export retail and wholesale discounts. The Germans have found that this plan acts admirably, and try their utmost to make it as general as possible. But England—?

EUROPEAN UNION OF BOTTLE-MANUFACTURERS.—The Union of Glass-manufacturers of Belgium, Denmark, Germany, England, France, Holland, Austria, Sweden, and Norway at a meeting recently held in Düsseldorf, formed themselves into a company under the title of the European Union of Bottle-manufacturers. The capital amounts to one million marks, and it is to be raised to six millions in order to introduce the Owens patent practically all over the world. The Council consists of representatives of every country, and the head offices of the company are in Berlin. Hermann Heye (Gerresheim) has been elected President. The yearly production of the union amounts to 1,428,500,000 bottles, and as the average sale price of each bottle is about 10pf. this represents a total value of about 140 million marks. Germany leads the way with a production of 530 million bottles, England follows with 305 million, Austria 157 million, Holland 66 million, Sweden 32 million, and Denmark 24 million bottles. The sum of twelve million marks is asked for the Owens patent, with unrestricted use for the whole world, with the exception of certain countries which are supplied by the United States—as, for instance, North America, Canada, and Mexico. The exploitation of the Owens patent will cause a great revolution in the bottle industry, since the Owens machine can do the work of thirty glass-blowers, and can be managed by one man.

SPANISH CHEMICAL INDUSTRY.—The chemical industry in Spain, says the "Chemiker Zeitung," is still in its infancy. Excepting mineral salts and chloride of lime, which are produced in the country electrolytically, all other foreign manufactured chemicals find a market there. In the province of Catalonia there are several chemico-pharmaceutical factories, which, however, exist only under the protection of a high import tariff. The most important of these factories, which produce sulphuric acid, nitric acid, hydrochloric acid, and sulphate of copper, have formed a syndicate, with central offices in Barcelona. True, in the year 1906, some new chemical factories were established, but the demands of the country are far from satisfied by its own productions. Cyanide of potash and of soda also come from abroad. England and Germany are the largest furnishers from the outside. The import of acetic acid has almost entirely ceased. Protected by the high tariff, two new factories for the production of acetic acid were erected in 1906, and now the output is able to satisfy the home demand. Another new factory, which chiefly produces caustic soda, was established in North Spain, near Santander, last year. The yearly importation of potato-meal and starch is about 100,000 sacks, mostly of German and Dutch manufacture.

AUSTRIAN ITEMS.—The headquarters of the "General Austrian Apotheker Verein" at Vienna have become too small, and the Society has decided to erect a palatial new edifice for the accommodation of its members. The scheme contemplates the provision of meeting-rooms, a pharmacy school, a chemical pharmaceutical laboratory, a laboratory for urine analysis, another for more advanced students, a laboratory for the analysis of foodstuffs, and a bacteriological laboratory, in which analyses will be made of samples sent in by colleagues in the provinces. These laboratories are intended for the use of members, who will likewise have the advantage of an extensive library, a valuable natural history collection, and an historical pharmaceutical collection. It is also intended to devote a special room to a permanent exhibition of pharmaceutical machinery, apparatus, utensils, pharmacy, and laboratory accessories, as well as all innovations bearing upon pharmacy.—During the past year there has been a considerable discussion regarding a proposal to form an Imperial organisation of Austrian apothekers, which alone is to be entrusted with the management of all matters relating to pharmacy, working in conjunction with existing bodies. There is every prospect that in a short time this will be an accomplished fact, as the two most important Austrian societies have considerably assisted the movement. It is suggested that the organisation should be composed of delegates from the existing official districts.—Herr Apotheker Dr. Friedrich, who has been for many years the President of the General Austrian Apotheker Verein, has retired. He has been unanimously elected an honorary member of the Society.

THE PHARMACY EMPLOYE'S DUTIES.—The Austrian Minister of the Interior has laid before the Pharmaceutical Corporations the draft of a proposed ministerial decree regulating the position and duties of employes in pharmacies. The Austrian law now recognises the following classes of pharmaceutical employes: Adjuncts (apothekers with diploma); provisors; assistants; aspirants (apprentices); dispensants; surtentants (assistants still studying); and laborants. With regard to the entrance of apprentices, the draft provides that before the definite engagement of an assistant a probation period of three months must elapse, and both their engagement and dismissal will in future be controlled by the district pharmaceutical association, and not lie solely in the hands of their master. A paragraph has been inserted to the effect that it is forbidden to employ apprentices for duties or services bearing no relation to pharmacy. The most important innovation, however, is the fixing of the maximum amount of duty in pharmacies to six times eight hours weekly, and not more than fifteen night duties monthly. For dismissal of assistants or on leaving service, notice on both sides can only be given six weeks before the end of each quarter—the same as in Germany. Under "Laborants" the draft recognises persons used solely for manual work in pharmacies who do their duty under the responsibility of the owner or manager of a pharmacy.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Friday, November 29.

Tunbridge Wells Chemists' Association, 33 Mount Pleasant, at 9 P.M. General meeting.

Monday, December 2.

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society Rooms, Church Street, at 9 P.M. Discussion (opened by Mr. F. W. Whitworth) on "The British Pharmaceutical Codex."

Dewsbury Chemists' Association, Church House, Church Street, at 8.45 P.M. Monthly meeting.

Tuesday, December 3.

Midland Pharmaceutical Association, Grand Hotel, Birmingham, at 8.30 P.M. Mr. F. H. Alcock on "Experiments with some Official Tinctures."

Derby Chemists' Association, Bell Hotel, at 9 P.M. Discussion on "The Sale of Poisons Regulations."

Federation of West-Riding Chemists' Association, Grand Restaurant, Boar Lane, Leeds, at 7.30 P.M. Annual meeting, election of officers, and discussion (opened by Mr. F. Pilkington Sargeant) on "The Desirability of Transferring the Administration of the Pharmacy Act from the Pharmaceutical Society to the Local Authorities."

Wednesday, December 4.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 P.M. Council-meeting.

Nottingham Pharmaceutical Association, Mikado Café, Long Row, at 9 P.M. Messrs. Beilby and Gill will open a discussion on "Advertising."

Thames Valley Chemists' Association, Lecture Hall, Castle Rooms, Richmond, at 7.30 P.M. Whist-drive. Tickets (2s. 6d. single, 4s. 6d. double) can be had from Mr. H. Peake, Hon. Secretary, 20 The Green, Twickenham, not later than Monday next.

Guildford Chemists' Association, Angel Hotel, at 7 P.M. Mr. Clapham on "Some Experiences in South Africa as Soldier and Pharmacist."

Stockport Chemists' Association, County Restaurant, at 9 P.M. General meeting.

Thursday, December 5.

Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 P.M. The following papers will be communicated: "The Affinity Constants of Bases as Determined by Methyl Orange" (preliminary communication), by Dr. V. H. Veley; "The Velocity of Reduction of the Oxides of Lead, Cadmium, and Bismuth by Carbon Monoxide, and the Existence of the Suboxides of these Metals," by Mr. F. J. Brislée; "The Relation between Unsaturation and Optical Activity, Part I. The Menthyl and Bornyl Esters of β -phenylpropionic, Cinnamic, and Phenylpropionic Acids," by Mr. T. P. Hilditch; "The Constituents of the Essential Oil of Nutmeg," by Dr. F. B. Power and Mr. A. H. Salway; "Methyl Ethers of some Hydroxy-anthraquinones," by Dr. A. G. Perkin; "The Colouring-matters of the Stilbene Group, Part IV., The Action of Caustic Alkalies upon Paranitrotoluene and its Derivatives," by Professor A. G. Green and Messrs. A. H. Davies and R. S. Horsfall; "The Replacement of Alkyl Radicals by Methyl in Substituted Ammonium Compounds," by Messrs. H. O. Jones and J. R. Hill.

Chemists' Assistants' Association, International Hall, Café Monico, London, W., at 7.30 P.M. Annual Cinderella dance.

Great Yarmouth Pharmaceutical Association, 156 King Street, at 8 P.M. Monthly meeting.

Glasgow and West of Scotland Chemists' Association, 94 West Regent Street, at 8.30 P.M. Mr. Peter MacEwan, F.C.S., lantern-lecture on "Fred. Reynolds and his Work."

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 P.M. Mr. W. H. Dennis, L.D.S., on "Dentistry up to Date."

Barnsley Chemists' Association, Royal Hotel, at 7 P.M. Mr. W. H. Stiles on "The B.P. Codex."

Friday, December 6.

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 9.15 P.M. Mr. Peter MacEwan, lantern-lecture on "Fred. Reynolds and his Work."

Blackpool and Fylde Chemists' Association, Palatine Hotel, Blackpool, at 8.45 P.M. Mr. W. L. Mayson on "Pharmaceutical Testing."

College Notes.

SOUTH OF ENGLAND COLLEGE OF PHARMACY F.C. v. SUTTON UNITED F.C.—This match was played at Sutton on November 23, and resulted in a win for the school by 3 goals to 1. Shackleton scored the three goals for the school.

SQUARE v. WESTMINSTER.—This football match was played at Wormholt Farm on November 23, and resulted in an easy victory for the Square by 10 goals to *nil*. Westminster pressed for a few minutes, but Square got the ball down to their opponents' half, and kept it there for most of the game. At half-time the score was 4 to *nil*, and during the latter half six more goals were placed to Square's credit. The next Square fixture is for December 7, when they will play Occident F.C. on home ground.

BATH AND WEST OF ENGLAND COLLEGE OF CHEMISTRY AND PHARMACY.—On November 22 the students of this College visited the Bath Gasworks. By the kindness of the general manager they were conducted to the various departments, and the working of these thoroughly explained. The preparation of "producer gas," of naphthalene, and other coal-tar products was seen, as well as the manufacture of ammonium sulphate from the ammoniacal liquor. The extraction of sulphuretted hydrogen from the gas and the value of the sulphuretted iron oxide in sulphuric-acid manufacture was emphasised. The testing department, with the Bunsen-Letehby photometer, created considerable interest. Previous to this the Bath Botanic Gardens had been visited, where botany received a little revision. Specimens of *Podophyllum peltatum*, *Physalis Alkekengi*, *Gaultheria procumbens*, *Ruscus hypoglossum*, *Althaea* species, and *Atropa Belladonna* were among the chief objects of interest, although several others were in fair condition considering the time of the year.

WESTMINSTER COLLEGE OF CHEMISTRY AND PHARMACY.—The last botanical excursion of the year took place on November 22 to Kew Gardens. The various specimens were graphically described by the Principal, Mr. G. S. V. Wills, enabling students to take valuable notes. On leaving the Gardens the party repaired to the "Rose and Crown" Hotel, Kew, where an excellent repast was provided by Mr. Wills. Later in the evening the students' annual smoking-concert was held in the assembly rooms. Unfortunately many students were unable to be present, but a lengthy programme provided by the committee was thoroughly enjoyed by all present. During a short interval Mr. F. J. Osborne, on behalf of the students, presented Mr. Wills with a handsome silver-plated egg-stand, an inlaid tea-tray, and a set of brass paper-weights. Mr. Wills thanked the students for their kind gifts, saying that his communion with hundreds of young enthusiasts like his students tended to make him feel quite young. Owing to indisposition Mr. J. E. Walden was unable to be present, but a letter, written in stirring terms, was read by Mr. S. C. Farrer, in which he proposed the toast to "The Students." Mr. G. T. Godolphin replied. The toast to the "Principal and Staff" was proposed by Mr. R. Robinson, and after the pianist, Mr. P. F. Trestrail, had been thanked the singing of the National Anthem and Auld Lang Sync brought the proceedings to a close. The programme of vocal and instrumental music was contributed to by Messrs. Gibbon, Osborne, Godolphin, Barley, Ransome, Trestrail, Healey, Waghorne, Amos, Robinson, and Farrer.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.

South of England College of Pharmacy, 186 Clapham Road, London, S.W.

Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester.

Manchester College of Chemistry, 225A and 227A Oxford Road, Manchester.

Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

Glasgow School of Pharmacy, 180 West Regent Street, Glasgow.

JAMAICA BAEI-FRUIT.—The bael-fruit tree is cultivated at Hope Gardens, Jamaica, and bears fairly heavy crops of fruit every year. This tree appears to be cultivated all over India for the sake of its fruit, which in its unripe state is used in cases of dysentery.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No Advertisement inserted for less than 6d.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their *bona-fides*.

We again call the attention of those who use this column for the sale or purchase of goods to the desirability of using our Deposit System. Some forward goods before they receive money for them, and others forward money to advertisers before they have even seen the goods. Disappointment in such circumstances is bound to happen now and then, and it is to prevent this, as well as to check fraud, that our Deposit System was instituted.

The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 6d. is charged by us on any transaction of 3l. or less, and 1s. if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank, Ltd."

FOR DISPOSAL.

APPARATUS.

MARTINDALE'S mahogany urine test-case, apparatus complete, reagents scarcely any used, cost £3, price 36s. "CLINICAL," 60 Doddington Grove, Kennington.

BOOKS AND PERIODICALS.

"C. & D.," 1837 to 1905, incomplete, unbound; any reasonable offer. BROADBENT, Chemist, Bradford.
CURIOUS old herbal, Culpeper, hundreds of coloured engravings, large, thick volume, capital condition, price 25s. carriage paid; rare. 17/6, Office of this Paper.
KERNER'S "Natural History of Plants," 2 volumes, as new, what offers? also Muter's "Chemistry." COOPER, Gilbert Crescent, Bucksburn-by-Aberdeen.

DRUGS AND CHEMICALS.

GARLIC, about 1 owt., English, keeps well, sorts 3½d., selected 4½d. 17/12, Office of this Paper.
ORIGINAL 5 lb. copper ol. limon. opt., 4 oz. iodoform. precip., reasonable offer, or exchange second-hand shop-rounds. MOORE, New Springs, Wigan.

FORMULÆ.

WINTER REQUISITES.—"Maltussine," best cough-cure, splendid lung tonic, pleasant, very profitable; "Floral Cream," non-greasy skin emollient, lovely odour, sells itself; "Cherry Foam," delicious liquid dentifrice, whitens discoloured teeth, imparts fragrance to the breath; "Haireurl," keeps hair in friz, harmless, indiscernible, honestly recommended; "Female Occasional Mixture," most reliable and safe, nothing better sold; "Em-broline," creamy inseparable embrocation, kills pain rapidly, one-third price of others; "Vir-ung," vegetable balsamic ointment, specially useful for chilblains, acts instantly; recipes, with full instructions, 2s. 6d. each, 5 for 10s.; samples, 3d. each post free. TOM BROOKS, Chemist, Hornsey, London, N. (25th year of advertising).

PROPRIETARY ARTICLES.

OFFERS wanted, cash, 4 ½-gal. 6 pints Fullwood & Bland's annatto. 19/20, Office of this Paper.
SURPLUS Stock.—9 1s. 1½d., 30 7½d. Licorine, clean; offers. HENDRY, Chemist, Renfrew.
SURPLUS stock.—2 doz. Field's 2s. 6d. cattle oils, 1 doz. 5s. ditto; any reasonable offer accepted. TWIGG, Chemist, Withernsea.

SHARES.

SHARES for Sale.—See p. 79.

SHOP FITTINGS.

WALL-CASE, 44 in. high, 26 wide, 3 deep, good condition, 28s. 6d. 19/5, Office of this Paper.
STRONG counter, very commodious drawers behind, 70s. "CHEM.," 10 Bridge Street, St. Helens.
12-FT. mahogany drug-fitting, with 8-ft. mahogany shelving, glass labels and knobs, only £4, worth double. DAVENPORT, 37 London Road, Bromley, Kent.
A LARGE quantity of shop-rounds, gold-labelled, all sizes; also ointment-jars and 2 O'Brien's cash-tills. Offers to "C. C.," 135 Queen's Road, Brighton.

MISCELLANEOUS.

DENTAL chair, good, cheap; also teeth specimens. DENT, 4 Chatsworth Road, Stratford, London.
FOR sale, cheap, 2 acetylene generators, 5-10 lights, perfect working order. TWIGG, Chemist, Withernsea.
DENTAL forceps, 14-plated instruments, mahogany case, cost £8, in new condition, £2 5s. HICKMAN, 5 Abbotts Road, Southall.
A REAL bargain.—Ash's £11 dental chair, perfect working order, £6 6s.; seen by appointment. "H.," 78 Upper Richmond Road, East Sheen, S.W.
OVERSTOCKED.—10 I.R. water-bottles, new, unsoiled, 2s. 6d. each; 12 lb. chlorodyne, 2s. 1b., B.P. 1885, carriage paid, any quantity, cash or exchange. W. PRATT, 1 Westgate, Cleckheaton.
AVERY'S chair weighing-machine, with recording steelyard, perfectly accurate, listed £28, £10; microscope, 2 eye-pieces, live box condenser, mahogany case, as new, cost £5, accept 50s. 68 Midland Road, Bedford.

WANTED.

DISPENSING-SCREEN. State particulars, 20/38, Office of this Paper.
PLATINUM purchased; prompt remittance. ROWSELL, 11 Crebor Street, Dulwich.
OLD artificial teeth wanted; cash return post. DENT, 4 Chatsworth Road, Stratford, London.
MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.
COLEMAN'S Wincarnis.—Wanted to purchase some £1 preference shares. Write, stating lowest price for cash, to 17/35, Office of this Paper.
OPENING New Business.—Wanted, good wall fittings, shop-rounds, also utensils, or anything useful; second-hand. Apply, with particulars and price, to CASEWELL, 209 Preston Road, Brighton.
ADJUSTABLE trial-frame, outside showcase, and sign for spectacles; optical showcards, blocks, anything optical; Welch's communion wine; mechanical window-attraction. WHITBY, Chemist, Winsford, Cheshire.

ADDRESSES WANTED.

THE address of G. H. Williams, late of 7 Dixon Street, Lincoln. 15/20, Office of this Paper.
WILL E. CROWTHER, late of 230-4 Haydn Road, Nottingham. 20/20, Office of this Paper.

WHOLESALE.

WANTED, berth in Manufacturing Perfumer's; 26 years. 38/29, Office of this Paper.

SITUATION required; good Wholesale experience, also Retail; good references; aged 29. 34/32, Office of this Paper.

TOWN Traveller (36), West and S.W. districts, is open for a really good saleable line. S. Moody, 13 Belsize Crescent, N.W.

1908 Representative; 30; present firm 14 years; interview arranged. Apply, "Cato" (34/35), Office of this Paper.

TRAVELLER: good connection Chemists, London, suburbs, South and West England, Eastern Counties. 34/11, Office of this Paper.

DOCTOR'S son, young, good Wholesale and Retail experience, desires post as Representative; North preferred. 34/51, Office of this Paper.

PACKING-ROOM or Laboratory.—Young man seeks situation; accustomed to Packing and Stockkeeping; 7 years' references. 6 Manners Street, York Road, Lambeth.

GENTLEMAN (29), 15 years' excellent Retail experience; qualified, highest references, desires engagement with Wholesale firm as Representative. 46/52, Office of this Paper.

ADVERTISER (25) seeks situation; experienced in Wets, Tinctures, Lab., Speciality, and Packing departments; 7 years' experience. "S.", 115 Cassland Road, South Hackney.

ANALYTICAL Chemist, having good experience in the manufacture of Fruit, Soluble Essences, Perfumes, Floral Ottos, seeks situation; would start branch business. 34/13, Office of this Paper.

TRAVELLER requires engagement; well-known man; good connection Chemists, etc., North and West; qualified Chemist; exceptional knowledge Drug and allied trades; good Salesman. "Velox" (36/7), Office of this Paper.

MEDICAL Student (29) wishes to represent good Wholesale house supplying Drugs, Dressings, or Surgical Instruments; good appearance and address; medical assistant for 14 years in Midlands; highest references. Allen, Moatfield Terrace, Wednesbury.

QUALIFIED Chemist, resident in Manchester, first-class connection throughout Lancashire, North Wales, and Staffordshire, desires good Agency or to represent good house; accustomed to introduce specialities to Medical men; good references. "Elvira" (34/29), Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, London, S.E. Telephone 81 Lee.

SHARES FOR SALE (free of commission, subject).—90 "Daily Mail" 7 per cent. Cumulative Ordinary, 19s. 3d.; 100 Claudius Ash Preference, 22s. 3d. c.d.; 200 Camwal Ordinary, 4s. 9d.; 100 Castner-Kellner Alkali Ordinary, 26s. x.d.; 70 E. Cook Preference, 46 18s. 9d.; 200 Idris "A" Ordinary 20s. 9d., 100 "A" Preference 18s. 9d. c.d.; 100 G. B. Kent Preference, 17s. 13d. c.d.; 120 A. J. White Ordinary, 2s. 10 1/2d.; 100 Preference, 11s. 7 1/2d. c.d.

WANTED (subject).—5 Camwal Debenture, 100 Preference, 10s. c.d.; 20 Evans Lescher Preference, 45 6s. 3d.; Meggeson Ordinary and Preference; 100 A. J. White Preference, 10s. 10 1/2d.

Share list sent free. Bankers, London and County. Telephone 81 Lee Green.

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SHOP-FITTINGS, SECOND-HAND FIXTURES.—Chemists requiring additional fittings or opening new premises would find it to their advantage to write us for particulars and photographs; we have a large assortment of second-hand fittings at rock-bottom prices. **WALTER KNOWLES & CO.**, 83 VICTORIA STREET, LIVERPOOL.

SECOND-HAND CHEMIST'S FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO.**, 262 OLD STREET, LONDON, E.C.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND).—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. **MATTHEWS, CHEMISTS' FITTER**, 14 and 16 MANCHESTER STREET, LIVERPOOL.

CHRISTMAS BARGAINS (second-hand), ready for immediate despatch: 14-ft. drug-fitting, mirror, poison-cupboard, 413 15s.; 6-ft. mahogany wall-case, 47 15s.; 8-ft. mahogany plate-glass fronted counter, 46 10s.; mahogany and plate-glass perfume-case and desk, mirror back, 55s.; 5-ft. plate-glass counter-case, 57s. 6d.; 6-ft. mahogany top counter, 47s. 6d.; 10-ft. mahogany and glass-fronted counter, 105s.; 6-ft. mahogany and plate-glass screen, mirror backs and bevelled mirror centre, 45 10s.; 5-ft. 6-in. screen and counter, mirror backs and glass shelves, 105s.; 8-ft. wall-case, 100s.; plate-glass tooth-brush case, 30s.; 6-ft. plate-glass counter-case, 65s.; 7-ft. screen, bevelled mirror centre, 45 5s.; 3-ft. mahogany wall-case, 9 ft. high, 84s.; 12-ft. mahogany and glass-fronted counter, 49 15s.; mahogany perfume-case, 30s.; 6-ft. bent plate-glass and mahogany counter-case, mirror back, and trays, 45 10s.; 5-ft. ditto, 95s. Call and see them or write for particulars to **PHILIP JOSEPH & SONS, LTD.**, 93 Old Street, London, E.C. Telephone 9057 London Wall. For RESULT of our LIMERICK COMPETITION, see page 4 this week's CHEMIST AND DRUGGIST.

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THE CHEMISTS' DICTIONARY OF MEDICAL TERMS AND TREATMENT is the latest C. & D. book. Tells you quickly what you want to know. Price 2s. 6d., or by post 2s. 8d., from the C. & D. Offices, 42 Cannon Street, London, E.C.; may also be obtained from the leading Wholesale houses; put down a copy in your next order.

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96 HILL TOP, WEST BROMWICH. Tel. No. 255.

Dispensers in East Africa.

FROM time to time announcements are made in the Coloured Supplement of *THE CHEMIST AND DRUGGIST* of vacancies for dispensers in the East African and Uganda Medical Service, and as chemists' assistants frequently apply for these berths, a correspondent who has served his three years under Government favours us with his experiences. Having undergone a strict medical examination, an agreement is signed for three years, the Government paying second-class passage out and home again. The money paid for passage is deducted from the salary at the rate of 3*l.* per month, and is refunded by the treasurer at the end of the engagement. The journey from Dover to Mombasa occupies about thirty days, or twenty-three *via* Marseilles, and on arrival the newcomer is instructed to report himself to the coast agent, who arranges all necessary details for the trip up country. If the vacancy is in East Africa it will be necessary to proceed to Nairobi, a day's journey on the Uganda Railway, at which place the P.M.O. will give instructions. If for duty in Uganda the dispenser will probably go direct from Mombasa to the railway terminus, Port Florence, on the east of the Victoria Nyanza, and thence by steamer to Entebbe, the headquarters of Uganda on the north-west of the lake, the journey by boat (150 miles) taking about a day. On arrival at Entebbe the S.M.O. decides the ultimate destination and work. If the position is at an outlying station, camp equipment, comprising one chair, one small folding-table, and one camp-bed, blankets, bedding, etc., will be necessary; all other necessities must be purchased at the local stores, such as lamps, dishes, and all cooking utensils, the outlay costing about Rs. 300 (20*l.*). To this expense must be added the cost of servants—viz., one cook, Rs. 12 to Rs. 15 (1*l.*) per month; one head boy, Rs. 8 to Rs. 10 (13*s.* 4*d.*); one other boy at Rs. 4 (5*s.* 4*d.*); and when in a station, one water boy at Rs. 3 (4*s.*); making a total of 2*l.* 2*s.* 8*d.* for servants. Provisions are very expensive, and the cost for living (including servants) is about Rs. 150 (10*l.*) per month. The salary is 200*l.* per annum, which is not a great inducement when the conditions one has to live under are considered. Some stations are hotbeds of fever and always exposed to infection of sleeping-sickness. As compared with other positions, the pay is small. Blacksmiths receive pay at the rate of 220*l.* to 240*l.* per annum, and fitters 230*l.* to 300*l.* Dispensers should receive pay at the rate of 200*l.*, rising 10*l.* annually to 300*l.*, so that they may be entitled to the usual pension scale after ten years' service. One great disadvantage of drawing less than 250*l.* is that the regulation grants to those whose pay is 250*l.* and over are six months' leave after three years' service (three months on full pay and three months on three-quarter pay). Those on a salary less than 250*l.* are allowed one month for each year of service on half-pay the whole time. These great differences are not known until the person engaged has reached the Protectorate, when he soon learns his inferior position. He discovers that he is "an agreement man"—i.e., one on a signed agreement, and not an "appointment." He is looked upon as an outsider, and not eligible to become a member of either the Mombasa, Nairobi, or Entebbe Clubs. If he joins the Sports Club at any of these places he may play cricket and football, but the tennis courts are strictly guarded against him. It sometimes happens that a dispenser is sent to a station where there are only a very few Europeans, and in this case he has to do the whole of the medical work of the station, and is kept very busy, as the bulk of the work is among the native police, porters, and, in fact, all natives who care to come for free treatment. Whenever an official is away for any length of time and another does his work, he receives an "acting allowance" for so long as he does the other's work; but should a dispenser be called upon to do the whole of the medical work of the station for many months together, he gets no "acting allowance," and if he has the courage to apply for it, the one rather disagreeable clause of his agreement is brought to his notice—viz., "that you shall perform any other suitable duties which the Government shall decide upon." A refusal means liability to be discharged, pay your own passage home, and also forfeit your passage-money out.

The hours of all Government offices are from 8 A.M. to 12 noon, and 1 P.M. to 3.30 or 4 P.M., and on Saturday work finishes at noon, except for urgent cases. Ten days' annual local leave can generally be obtained, when some of the finest big-game shooting can be had. Those who apply for vacancies should endeavour, before going out, either to get from the authorities at home an increase in the present rate of pay or to obtain the post on an "appointment" and not on "agreement," so as to secure the greater advantages which the former carries over the latter.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, December 9.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Mr. Conrad Beck on "The Theory of the Microscope." (Cantor Lecture III.)

Tuesday, December 10.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 8 P.M. Evening meeting. Discussion on "Limits of Error in Chemical Standards," opened by Mr. D. L. Howard, F.C.S.

Bradford Chemists' Association, Royal Hotel, Darley Street. Annual dinner.

Wednesday, December 11.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Sir William Ramsay on "Radio-active Phenomena."

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 9.15 P.M. Social evening and photographic exhibition.

Manchester Pharmaceutical Association, Chemical Club, Victoria Hotel, at 7.30 P.M. Lantern-lecture by Mr. R. H. Dawson (Wigan) on "The Fertilisation of Flowers."

Wolverhampton Chemists' Association, Star and Garter Hotel, at 8.30 P.M. Mr. W. K. Dunn, lantern-lecture on "A Trip to Switzerland."

Cambridge Pharmaceutical Association, Bull Hotel, at 9 P.M. Mr. Walter Lawton, M.R.C.S., L.R.C.P., on "Stimulants and Narcotics and their Users and Abusers."

Liverpool School of Pharmacy. Annual dinner and smoking-concert, at 8.45 P.M., in the Star and Garter Hotel, Mr. Harold Wyatt in the chair. Tickets may be had from the Secretaries, Messrs. F. E. Farmer and J. T. Oliff, at the school.

Thursday, December 12.

Bath Pharmaceutical Association, Literary Institution, at 8.15 P.M. Mr. W. J. Spurway comments on the "British Pharmaceutical Codex."

West Ham Chemists' Association, Earlam Hall, Forest Gate, E., at 8 P.M. Meeting followed by a smoking-concert.

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Mr. F. Goldby, lantern-lecture on "Continental Cities."

Leeds Chemists' Association, Collinson's Café, at 8.30 P.M. Whist-drive (postponed from December 11).

Sheffield Pharmacy Athletic Club, Imperial Rooms, Penistone Street. Whist-drive.

North East Lancashire Chemists' Association, Bute Café, Blackburn, at 8.30 P.M. Mr. R. C. Cowley (Liverpool) on "The Formation of Medicinally Active Constituents in Plants and their Physiological Signification."

London Chemists' Association, The Horns, Kennington, S.E., at 7.30 P.M. Social evening. Tickets from Mr. H. A. Riles, 8 Queen's Road, Lower Edmonton, N.

Friday, December 13.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Professor T. Oliver, M.D., Shaw Lecture on "Industrial Poisons—Lead and Phosphorus—with Special Reference to Lucifer-match Making."

Bournemouth Pharmaceutical Association, Gervis Hall Restaurant, at 8.30 P.M. Discussions on the "Altered By-law No. 3" and the Pharmaceutical Society's "Codex" (the latter opened by Mr. F. W. Hornby).

U.S.A. FOREIGN TRADE.—During the nine months ended September 30 the imports into the United States, which were valued at \$1,108,134,983, increased \$159,867,871, as compared with those for the like period of last year. The exports, which aggregated \$1,331,621,655, show a comparative increase of \$93,787,231, making a gain of \$253,655,602.

The Australian Tariff.

On December 2 the tariff debate was resumed in the House of Representatives. Item 254, "Oils," was passed, with the following alterations, to take effect on and after December 3: (a) In quarter-pints and smaller sizes, per dozen, 1s. general tariff, 9d. for the U.K. (b) Half-pints and over quarter-pints, per dozen, 2s. general, 1s. 6d. for the U.K. (c) Pints and over a half-pint, per dozen, 4s. general, 3s. for the U.K. (d) Quarts and over a pint, per dozen, 8s. general, 6s. for the U.K. (e) Over a quart, per gallon, 2s. 8d. general, 2s. for the U.K. (f) Cottonseed and china oil, in vessels exceeding 1 gal., per gal., 2s. general. (g) Cottonseed, when denatured as prescribed by Departmental by-law, per gal., 6d. general. (h) Olive, per gal., 2s. general. (i) Castor, colza, and linseed, per gal., 6d. general. (j) Lubricating (mineral), per gal., 3½d. general, 3d. for the U.K. (k) Mineral n.e.i., naphtha, benzene, etc., per gal., 3d. general, ½d. for the U.K. (l) Solar oils and residual oils, per gal., ¼d. general. (m) Oils n.e.i. (not including cloth oil), per gal., 6d. (n) Castor-oleine and other saponifiable oils, per gal., 6d. general. (o) Kerosene and other refined petroleum, in packages less than 10 gals. in content, free. (p) Kerosene and other refined petroleum, n.e.i., free. Item 255 was passed thus amended: Birch tar oil, cloth oil, pine oil, including rosin oil, fir-tree, unrefined fish oils, china oil (when denatured as prescribed by Departmental law), seal, whale, penguin, petroleum (crude), degrass, sod, mirbane, and turpentine, free. The following alterations take effect on and after December 3: Item 256, paints and colours: (a) 5s. 4d. general, 3s. 6d. for the U.K. (b) 6s. per cwt., or 20 per cent. *ad val.*, general, and 5s. 3d. per cwt., or 15 per cent. *ad val.*, for the U.K.

Item 273 (E) is amended to read: Acetates for the manufacture of acetic acid, *ad val.* 15 per cent. Item 273, thus amended, has been passed. Item 274, muriatic, nitric, and sulphuric acids, *ad val.* 15 per cent., has been passed. Item 275 is amended to read: Ammonia—namely, carbonate anhydrous liquid, muriatic and sulphate—*ad val.* 15 per cent. Item 276, carbonic acid gas, 2d. per lb., has been passed. Item 277, carbide of calcium, is to be free from all countries. Item 278 (A) has been thus amended: "Salicylic and boric acids and other food preservatives n.e.i.; salicylate of soda; sulphites and bisulphites of potassium; bisulphite of sodium, calcium, and magnesium, and foaming-powders and liquids, including malto-peptone yeast food, yeast-food preservatives, yeast nourishment, quillaya bark, saponarias, glycyrrhizin and its compounds, *ad val.* 25 per cent. general tariff, 20 per cent. for the United Kingdom." The sub-item, thus amended, has been passed. Item 278 (B) has been amended thus: "Saccharin and other similar substitutes for sugar, and substances capable of conversion into such substitutes for sugar, 30s. per lb." The sub-item, thus amended, has been passed. Item 279, cresylic acid, crude creosote oil and tar oil, saponaceous mixture of creosote and carbolic acid, free. Item 279 (A), crude naphthalene free. Item 280, naphthalene, n.e.i., *ad val.* 25 per cent. has been passed. Item 281 has been amended thus: "Cyanide of potassium, sodium and bromide salts free," and passed. Item 282, voltoids of salammoniac, free, has been passed. The following items were passed as they stand: Item 255, glass analysis apparatus, arsenic-testing apparatus and tubes, evaporating basins, free. Item 256, scientific apparatus (glass), namely, beakers, flasks, test-tubes, vacuum tubes, burettes, weighing bottle and tubes, eudiometers, mitrometers, radiometers, fat-extraction tubes, filter-pumps; gas, washing, reduction, absorption, and drying bulbs, towers, and tubes; glassware graduated in centimetres, grains, minims, ounces, and grammes, also carbolic acid, sulphuretted hydrogen, decomposing water, and bacteriological apparatus of glass, free. Item 258, delete words "of all kinds and materials." Item thus amended to read: "Bottle-stoppers, n.e.i., free." was passed. All stoppers other than glass or rubber are now admitted under this item. The following items were passed in the original wording, taking effect up to December 3: Item 259, bottles, n.e.i., flasks and jars, empty, including packing, measuring outside the package as imported: (a) From one dram up to and including 10 oz. of fluid capacity per cubic foot, 2s. general tariff, 1s. 9d. preferential. (b) Over 10 oz. of fluid capacity per cubic foot, 1s. 1d. general tariff, 1s. preferential. (c) Wine, beer, spirit, and aerated-water bottles, per cubic foot, 10d. general tariff, 9d. preferential. Item 260, bottles, n.e.i., flasks and jars filled, irrespective whether the contents are liable to duty or not—(a) Up to and including 2 oz. of fluid capacity, per dozen, 1s. 1d. general tariff, 1s. preferential. (b) Over 2 oz. of fluid capacity, per dozen, 10d. general tariff, 9d. preferential. On and after December 4 they are to be worded respectively as follows: Item 259—(a) Bottles, n.e.i., flasks and jars empty, 35 per cent. general tariff, 25 per cent. preferential. (b) Bottles up to and including 5 drams of fluid capacity, free. Item 260—

Bottles, n.e.i., flasks and jars filled: (a) Bottles up to and including a capacity of 5 fluid drams, free; (b) bottles of over 5 drams and not exceeding 10 oz. fluid capacity, per dozen, 1½d. general tariff, 1d. preferential; (c) bottles of over 10 oz. and not exceeding 20 oz. fluid capacity, per dozen 2d. general tariff, 1½d. preferential; (d) bottles of over 20 oz. fluid capacity, per dozen, 2½d. general tariff, 2d. preferential. Item 263, after December 4, will take effect as follows: Dry gums, shellac, sandarac, dextrine, and mastic, free. (The word "dextrine" inserted.) The item as amended was passed. Item 271, pestles and mortars, agate, free. The following alterations and decisions take effect on and after December 5: Item 283, insecticides, sheep washes and disinfectants, n.e.i., free, passed. Item 284, fly papers, chemical and sticky, *ad val.* 15 per cent. general tariff, was made free. Item 285, Thio sulphates (hydrosulphites) and hydrosulphites containing zinc sulphite and formaldehyde, free, was amended by the substitution of "hyposulphites" for "hydrosulphites." Item 286, chemical compounds and simple drugs, free; item 287, bacteriological products and serum, as prescribed by departmental by-laws, free, and item 288, carbonate and bicarbonate of soda, free, were passed. Item 289, tartaric acid, cream of tartar, and citric acid, 5 per cent. general tariff, free United Kingdom tariff, was made free for all countries. Item 290, essential oils, non-spirituous, n.e.i., free, was passed. Item 291a, medicines, pharmaceutical preparations, patent and proprietary medicines and other medicinal preparations, medicinal compounds (not chemical), medicinal extracts, essences, juices, infusions, solutions, emulsions, confections and syrups, pills, pilules, tabloids, soloids, ovoids, tablets, capsules, troches, cachets, suppositories, pessaries, n.e.i.: plasters, poultices, salves, cerates, ointments, liniments, lotions, pastes, and the like, medicinal waters and oils, n.e.i., and medicines for animals, *ad val.* 15 per cent. general tariff, was amended by the omission of "troches," which are dutiable as medicated confectionery under item 45a, and of "plasters," which are now admitted free. Item 291a thus amended was passed. Item 291b, medicine, spirituous, *ad val.* 15 per cent. general tariff, was passed. Item 292 was amended to read: Opium, for medical purposes only, under the departmental by-laws, general tariff 30s. per lb. Item 293 was amended to read: Opium contained in any medicinal preparation, when such preparation would not be liable to a higher duty under any other headings, general tariff 30s. per lb. Item 294 was amended to read: Perfumery, including perfumed ammonia, toilet-preparations (perfumed or not), non-spirituous and spirituous, when the duty payable under item 8 is less than that payable under this item: skin foods, refined lanoline, refined glycerin, petroleum jelly. The rates for item 294 are 25 per cent. *ad val.* for all countries. Item 295 was amended to read: Unrefined glycerin and unrefined lanoline, camphor vaseline (not being petroleum jelly), and plasters (adhesive and all unmedicated), free. The item as amended was passed. Item 296, essential oils and fat containing extract of flowers used in making perfumes, was made free, instead of 20 per cent. general tariff. Item 297, sulphuric ether and other ethers, n.e.i., non-spirituous or containing not more than 5 per cent. of proof spirit, free, was deleted. Item 298, soda crystals, general tariff per cwt. 1s., was passed.

College Notes.

GLASGOW SCHOOL OF PHARMACY.—The annual dinner of the past and present students at this school will take place in the Bath Hotel, Glasgow, on Friday evening, December 13, at 8.15 p.m. Dr. George Coull, of Edinburgh, will be in the chair. Tickets (4s. each) may be had from the Secretary, Mr. Peter Fenton, 180 West Regent Street, and it is requested that application be made not later than December 10.

LONDON COLLEGE OF PHARMACY F.C. v. LONDON DEVONIANS F.C.—Played at Wimbledon on November 30. The home team started the ball rolling and, passing with precision and considerable pace, scored a goal within a few minutes of kicking off. The Londoners returned the compliment with a successful piece of work, in which their left wing was principally concerned. The Devonians added three more to their score before half-time. Both teams scored once during the second half, and thus a fast game ended in a win for the London Devonians by 5 goals to 2.—The London College team meets the South of England eleven on December 7. This Inter-Pharmacy League fixture is exciting considerable interest, because both teams have good records, and a close and interesting encounter is confidently anticipated. The match will be played on the Olympic Ground at Wormholt Farm, Shepherd's Bush. Kick off 2.15.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

FOR DISPOSAL.

APPARATUS.

CARBOYS, 1 gal., 3 upright, 2 pear; offers. DENT, 58½ Crawford Street, Marylebone.

FOR sale, portable still, with stove combined, capacity about 4 gals., copper boiler and block-tin worm condenser, £3. ASLEY, JOHN-SON & Co., LTD., 9 Scale Lane, Hull.

VACUUM-PAN for sale, to make room for larger plant; working capacity about 60 gals.; fitted complete with pump, condenser, pulleys, gauges, and usual appurtenances; all in good condition; specification on application. AYRTON, SAUNDERS & KEMP, LTD., 34 Hanover Street, Liverpool.

BOOKS AND PERIODICALS.

MINOR books, latest editions, cheap. TRAVERS, 4 Cobham Road, Kingston-on-Thames.

"MODERN PHYSICIAN," Wilson, 5 vols., new; exchange ¼-plate folding Kodak or binoculars; good condition. 36/1. Office of this Paper.

"PRESCRIPTION-READING MANUAL," a text-book for pharmaceutical students, by William Watson Will; published at 12s. 6d. net; post free 2s. J. PHILBRICK, Longfellow Road, Worcester Park, Surrey.

TEN C. & D. Diaries, from 1836 to 1906; "The Pharmaceutical Journal," bound from its foundation to '72, 10 of the volumes in half-calf, with portraits. W. HOOPER, 24 Russell Street, Covent Garden.

WHAT offers? Muter's "Practical"; Perkin's "Organic"; Attfield's, Lowson's, Bentley's, Scott's, B.P. (unsoiled). "Pharmacy Student's Guide"; chemical apparatus; state wants. HACKFORTH, 20 Hoole Road, Sheffield.

DRUGS AND CHEMICALS.

25 OZ. gum opii; 30s. carriage paid; deposit. 36/8, Office of this Paper.

EIGHT 1-oz. Macfarlane's morph. hyd. Offers, EDWARD MAISH, Chemist, Bristol.

GARLIC, about 1 cwt., English, keeps well, sorts 3½d., selected 4½d. 17/12, Office of this Paper.

OVERSTOCKED.—3 lb. opium Tky. opt.; 2 oz. ol. neroli super.; 15 lb. tr. opii B.P.; offers, cash. THEXTON, Chemist, Kirkby Lonsdale.

SURPLUS Stock.—A few gallons tr. opii (Smith's make), in unopened Winchester; glycerine, 1 cwt., either keg or 56 tins; water-glass, 2-lb. tins (Evans). Best cash offer to WRIGHT, Chemist, Greenock.

FORMULÆ.

LEES'S 100 practical recipes are original and contains all the up-to-date Chemist requires to produce saleable winter lines; 2s. 6d. complete, post free. LEE, Chemist, Teddington.

WINTER REQUISITES.—"Maltussine," best cough-cure, splendid lung tonic, pleasant, very profitable; "Floral Cream," non-greasy skin emollient, lovely odour, sells itself; "Cherry Foam," delicious liquid dentifrice, whitens discoloured teeth, imparts fragrance to the breath; "Haireurl," keeps hair in friz, harmless, indiscernible, honestly recommended; "Female Occasional Mixture," most reliable and safe, nothing better sold; "Em-brolin," creamy inseparable embrocation, kills pain rapidly, one-third price of others; "Vir-ung," vegetable balsamic ointment, specially useful for chilblains, acts instantly; recipes, with full instructions, 2s. 6d. each, 5 for 10s.; samples, 3d. each post free. TOM BROOKS, Chemist, Hornsey, London, N. (25th year of advertising).

OPTICAL AND PHOTOGRAPHIC.

64 MICROSCOPE slides, 1s. 6d. doz., 7s. lot; exchange unmounted objects. LINTIN, 170 Freedom Road, Sheffield.

20-FT. oxygen cylinder and cover, perfect condition, 28s.; 3 Ticka cameras, new, 15s.; ¼-plate Beck symmetrical lens in automat shutter, quite new, 30s. Wanted 8½-in. condenser or enlarging lantern, ¼-plate. PERKINS, Knighton, Radnor.

PROPRIETARY ARTICLES.

LUNG-BELLS, unopened; 28s. 6d., carriage paid. 35/18, Office of this Paper.

OVERSTOCKED.—Woolley's Chemists' Emulsion, 7 doz. 10½d., 1 doz. 1s. 6d., clean and new; ½ gross 1s. Ozonia; offers wanted. I. STOUT, Chemist, Tyldesley.

OFFERS wanted (cash).—7½d. Frog in Throat; 4s. 6d. trial Koko; Virol, 2s. 11d., 1s. 8d.; Pasma powder, 2s. 6d., 1s.; Belton's Busy Bees, 1s. 1d., 7½d. THEXTON, Chemist, Kirkby Lonsdale.

HAZELINE Snow, 1s., 5 doz., 8s. 3d. doz., or best offer; Keene's One-night Corn-cure, 7½d., 7 doz. at 5s. doz., or best offer; Elgildo gold enamel, 5½ doz. 1s., 7s. doz., or offer. BROOKE-KELLY, George's Street, Enniscorthy.

SHARES.

SHARES for Sale.—See p. 67.

OFFERS wanted for 10 £5 5 per cent. preference shares. EVANS SONS LESCHER & WEBB, LTD., 23/7, Office of this Paper.

SHOP FITTINGS.

O'BRIEN till, perfect order; could not tell it from new. Apply, 36/61, Office of this Paper.

COUNTER-CASE as Maw's 2740, 6 ft. long, 16 in. wide; would exchange for smaller and cash. SHAW, Doncaster.

TWO pear-shape carboys, 10 gals. capacity, cut stoppers, 38½ in. to top stopper; what offers? 36/15, Office of this Paper.

2 3-GAL. stoppered carboys (unbroken), rails, stands, complete, 27s.; 24 5-gr. pill machine and roller, 15s., quite new, carriage paid. "CHEMIST," 54 Boothfold, Waterfoot.

MISCELLANEOUS.

WATERBED, 24 by 37, perfect condition, used 4 times, accept 27s. 6d. JEFFRIES, Chemist, Guildford.

2 DENTAL chairs (4 and 5 guineas), "Hedley" anæsthetic apparatus, teeth specimens. DENT, 4 Chatsworth Road, Stratford, London.

A REAL bargain.—Ash's £11 dental chair, perfect working order, £6 6s.; seen by appointment. "H.," 78 Upper Richmond Road, East Sheen, S.W.

BRANCH practice dental chair, good as new, cost £7, take £4, on rail; also gas-bag and face-piece (Garth's); 1 doz. pairs forceps and 2 doz. excavators, cheap. HOLLOWAY, Broadway, Southend.

FOUR gross 2-oz. amber square bottles, 6s. gross; 56 lb. quillaia bark, crushed, 42s. cwt.; Manual of Formulæ (B. & C.D.), 2s. 6d.; Thorington's "Refraction," 5s. 6d.; "Optician's Manual," 7s. 6d.; Flather's "Trade Recipes," 1s. B. ADAMS, Chemist, Mansfield.

WANTED.

GLASS percolator. State size and price, 23/19, Office of this Paper. SET of Cowie's books and lecture notes. "PUPIL," East Mount Dispensary, Darlington.

MINOR books, latest editions, cheap. TRAVERS, 4 Cobham Road, Kingston-on-Thames.

GOOD analytical balance with weights complete. Full particulars to LEE, Chemist, Teddington.

MINOR books, chemists' books, for cash or exchange. GOWER, Bookseller, Waterloo, Liverpool.

COMPLETE set of modern shop fittings and bottles; state particulars. Apply, 34/25, Office of this Paper.

ROSE, otto, musk, vanillin, coumarin, artificial perfumes, sifter and mixer, benzoic acid, oil peppermint. Send particulars to 36/16, Office of this Paper.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, December 16.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Mr. Conrad Beck on "The Theory of the Microscope." (Cantor Lecture IV.)

Tuesday, December 17.

Huddersfield Chemists' Association, Queen Hotel, at 8.45 P.M. Discussion on "Objectionable Patent Medicines."

Wednesday, December 18.

Pharmaceutical Society of Great Britain, North British Branch, 36 York Place, Edinburgh, at 8.30 P.M. Mr. Jas. Grier, M.Sc., on "Modern Problems in Dispensing." There will be an exhibition of apparatus necessary for dispensing medicines in modern practice.

Western Chemists' Association, Tudor Hotel, Oxford Street, London, W., at 9 P.M. President's address and paper by Messrs. Deutertre and J. D. Marshall on "Old Pharmacy Jars."

Plymouth Chemists' Association, Junior Section, 7 Whimble Street, at 9 P.M. Mr. H. Noel Hearder on the "Acids of the Pharmacopoeia."

Royal Microscopical Society, 20 Hanover Square, London, W., at 8 P.M. Mr. Jas. Murray on "Some African Rotifers"; Mr. E. M. Nelson on "Gregory and Wright's Microscope" and "A Correction for a Spectroscope." There will also be an exhibition of selenite specimens, showing interesting features due to twinning, by Mr. E. Large.

Newcastle-on-Tyne Chemists' Association, Hôtel Métropole, Clayton Street, W., at 7.30 P.M. Annual dinner. Tickets (4s. 6d. each) from Mr. W. Pescod, 60 Osborne Avenue.

Thursday, December 19.

Brighton Association of Pharmacy, 86 King's Road, at 9 P.M. Annual report of Buying Club.

Chemical Society, Burlington House, London, W., at 8.30 P.M. The following papers will be communicated: "Derivatives of Tetramethyl Glucose," by Messrs. J. C. Irvine and A. M. Moodie; "The Characterisation of Mercerised Cotton" by Mr. J. Hübner; "Attempted Synthesis of Dinaphthacridine: Condensation of Methylene Dichloride and 1-substituted-2-naphthylamines," by Dr. A. Senior and Mr. P. C. Austin.

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Musical and social evening.

THE annual dinner of the Peterborough Chemists' Association takes place on January 16. The President and Secretary of the Pharmaceutical Society are expected to be present. Tickets (5s. each) from Mr. John W. Hall, 6 Long Causeway.

College Notes.

FOOTBALL.—The Inter-Pharmacy League match (London College F.C. v. South of England F.C.) took place at Shepherd's Bush on December 7, and resulted in a victory for the South of England school by 5 goals to 2. The match was well contested, but the S.O.E. proved the stronger team throughout, Bishop, Kenny, Thwaites, Shackleton, and Fox being most conspicuous for the winners.

GLASGOW SCHOOL OF PHARMACY.—On Thursday, December 5, the students of this school, accompanied by Mr. Lothian (Principal) and the demonstrators, visited the laboratories of the Glasgow Apothecaries Company at St. Rollox. An interesting and practical lecture in materia medica and pharmacy was delivered by Mr. Bowie, manager of the works.

WHERE TO STUDY.

The following educational institutions are advertising in this issue:

School of Pharmacy, 17 Bloomsbury Square, W.C.

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Chemistry, Pharmacy, and Botany, 323 Clapham Road, London, S.W.

South of England College of Pharmacy, 186 Clapham Road, London, S.W.

Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester.

Manchester College of Chemistry, 225A and 227A Oxford Road, Manchester.

Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

Demerara Doings.

(From the "C. & D." Correspondent.)

DR. GODFREY, Surgeon-General, is in Barbadoes on his way back from a twelve-months' leave to "Mudland," and is expected to resume his duties in December.

A COMMISSION has been appointed by his Excellency the Governor to inquire into the alleged "shortcomings" in the administration of the Public Hospital, Georgetown.

IRON AND ARSENIC COMPOUND TABLETS are greatly in favour at present, owing to the prevalence of malarial fever, and have proved very successful in a large number of cases.

MR. LORD, a highly respected druggist of Mahaica, has just died, and has left a very flourishing business, which in all probability will be continued by his brother, who lately carried on business at Kitty.

GOVERNMENT MEDICAL SUPPLIES.—Up to the time of closing the home-going mail, the firms tendering for the Government medical supplies for next year have had no information as regards the successful tenderer.

FOOD, DRUG, OR MEDICINE.—Mr. A. Humphry, druggist, Essequibo, was prosecuted under the Food and Drugs Ordinance for selling crushed linseed deficient to the extent of about 9 per cent. of oil. The Magistrate reserved decision on the point as to whether crushed linseed is a drug or a medicine. The Magistrates are also considering whether the "black-leaf tobacco," largely imported and smoked by the negro element, is a food or a drug.

BUSINESS CHANGES.—Mr. J. R. Warren, druggist, late of Ann's Grove, E.C., has removed to Victoria, E.C.—Mr. C. M. Hardy, who some years ago was in the employ of Messrs. Virtue & Co., and has lately been in the "bush," has joined the staff of Messrs. Brodie & Rainer.—Mr. Henry has lately joined the staff of Messrs. Scott & Co., Ltd.—Messrs. Brodie & Rainer have entered into possession of their new premises, which promise to be the finest chemists' and druggists' business in the West Indies.

German News.

(From the "C. & D." Correspondent.)

A JUBILEE.—The firm of F. Wolff & Sohn, the well-known perfumery and toilet-soap manufacturers, of Karlsruhe, have celebrated their fiftieth jubilee. A sum of 50,000m. was divided between the firm's benevolent fund and a family insurance fund which is about to be established.

GERMAN HONOURS FOR DISTINGUISHED CHEMISTS.—At the December general meeting of the German Chemical Society five new honorary members will be elected. The names proposed are: Professor Henri Becquerel, Paris; Sir William Crookes, London; Professor Karl von Linde, Munich; Ernest Solvay, Brussels; and Professor Julius Thomsen, Copenhagen.

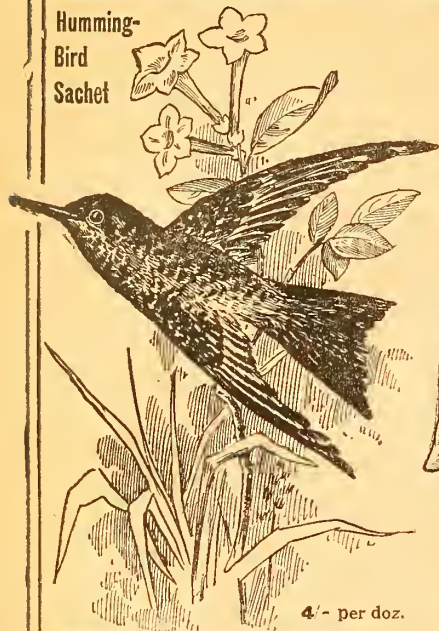
MILITARY PHARMACISTS.—In consequence of the small number of military pharmacists available for service in the army hospitals in Germany, the military authorities will be obliged to call up those pharmacists whose names are on the reserve ("leave") list. Some twenty superior and eighty lower-grade pharmacists have been ordered up for forty-two days' exercise to prepare them for military service.

LYSOL WITHOUT A PRESCRIPTION.—The druggists of Friedenau, near Berlin, have been getting into trouble with the police for selling lysol without a prescription. The police authorities recently commissioned a woman from another district to purchase lysol from several druggists, who all supplied it on demand. When taken to task they all declared they supplied it without the necessary prescription because they knew the woman!

THE number of potash-salt enterprises in Germany which have been obliged to partially shut down or to go into liquidation is steadily increasing. The "Hedwigsglück" have now called a special meeting in order to discuss the technical and financial position of the undertaking and the advisability of liquidation.

GOOD SELLING SEASON LINES.

Humming-
Bird
Sachet



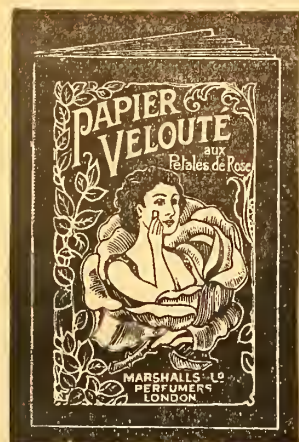
4/- per doz.



POTTE POURRIE SACHET, 3/6 doz., 36/- gross.



HANDSOME GOLD BLOCKED SATIN,
3/6 doz



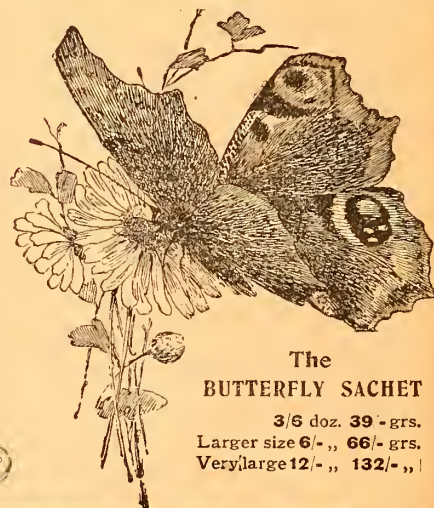
Powder Leaflets, 1/6, 2/6, 4/6.



PLUM-PUDDING
SACHET.

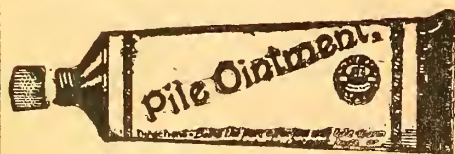
4 6 doz. 51/- gross.

A perfect representation of a rich fruity pudding.



The
BUTTERFLY SACHET

3/6 doz. 39/- grs.
Larger size 6/-, 66/- grs.
Very large 12/-, 132/-,



PILE
OINTMENT.

An efficacious preparation, prepared with witch hazel neatly packed in oz. tubes, cartoned, complete with tubes 7/6 doz.; spare tubes, 3/- doz.



SEASONABLE COUNTER SPECIALITY.
Also made in EUCALYPTUS and ALMOND.
6d. size, 30/- gross; 3d. size, 15/- gross.



COLLAPSIBLE
TUBES

OF ALL KINDS.

Adeps Lanæ, Andydrous,
Odourless, 10d. per lb.

MARSHALLS', LIM., 27 Red Lion Square, LONDON, W.C.

WHOLESALE.

DRUG Traveller wanted for Provinces, with established connection amongst Doctors and high-class Chemists; must be able to show turnover of £5,000 per annum. Write to "Drug," c/o Messrs. Gibbs, Smith & Co., 10 High Holborn, W.C.

MANUFACTURING.—Wholesale House requires a capable and energetic Analytical Chemist, thoroughly up to analysing of solid and liquid extracts, manipulation, and general management; good knowledge of manufacturing advantageous. State full particulars to "Extracts" (77/39), Office of this Paper.

TRAVELLERS.—Wanted, by THE ROTARY PHOTOGRAPHIC CO., LTD., 12 New Union Street, London, E.C., thoroughly reliable and successful Representatives in LONDON and PROVINCES to sell ENGLISH-MADE Advertising Calendars and Specialities suitable for Chemists, on commission; the positions vacant afford an unique opportunity to real live salesmen, and only such need apply; first-class references required. Apply, in first instance by letter, marked "Calendars, C. & D.," and only applicants giving fullest particulars of past career will be granted an interview.

YOUNG Chemist required in Label department of large Wholesale firm; the post demands accuracy, close attention to detail, and the ability to write clear, concise English. State age, full particulars, and salary required to "Y. C." (64/71), Office of this Paper.

YOUNG Traveller for London wanted; undoubted references and connection among the largest Wholesale Druggists and Grocers, Baking-powder, Sauce, Pickle Manufacturers, absolutely essential; must state salary. Apply, 77/16, Office of this Paper.

FOR SALE.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d.

See Publisher's Notice on Front Page of this Supplement.

COMplete FITTINGS for Pharmacy, including Shelving, Nest of 40 Drawers, Dispensing-screen with Sponge-case, Perfume-case, Desk, Counter with Drawers, Handsome modern Window-enclosure, 140 Shop-rounds, Scales, Mortars, etc.; condition as new; recently cost over £150; must be cleared immediately; price £50. "Assignee," 69 Beechwood Road, Hornsey.

AGENCIES.

See Publisher's Notice on Front Page of this Supplement.

See Publisher's Notice on Front Page of this Supplement.

AUSTRALIAN AGENCY.—Sedgley and Woolnough Proprietary, Ltd., Manufacturers' Agents, Sydney, N.S.W., are open to represent actual Manufacturers throughout Australia; Messrs. Woolnough and Acutt, now in London, will be pleased to hear from such with a view to business. Address, H. A. Woolnough, Salisbury Hotel, Salisbury Square.

ALONDON Agent, well known to all Wholesale buyers in the Drug and Chemical trade, with central offices and good warehouse room, is open for Additional Agencies. Apply, in first place by letter, to Box 3,174, at Horneastle's, Cheapside.

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SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.

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RETAIL.

IMPROVER; disengaged; aged 18. Llewelyn, 1 Garth Terrace, Portmadoc.

QUALIFIED; 22; Dispensing, Photography. T. P. Parker, Mount Villas, York.

UNQUALIFIED; 34; Mixed Country; Extractor. Foster, 57 Firth Park Road, Sheffield.

23; time for study; Dispensing and Counter experience. "Statim," 19 King's Road, Chelsea.

WANTED, immediately; Part-time; personal application. Apply, 76/29, Office of this Paper.

JUNIOR; 20; Dispensing, Photography; good references. "J. K.," 165 Cheetham Hill Road, Manchester.

PART-TIME; evenings preferred; Minor student. Ravenshaw, 145 Lancaster Road, Notting Hill, W.

IMPROVER requires engagement; aged 20; salary small; experience required. 72/19, Office of this Paper.

QUALIFIED; disengaged; experienced; trade, Photography. "B.," 131 Clarence Street, Bolton, Lancashire.

UNQUALIFIED; good Dispensing and Counter experience; ab-stainer. E., 43 Larkhall Rise, Clapham, S.W.

ASSISTANT; unqualified; 29; good experience; outdoors; Photography; disengaged. 77/24, Office of this Paper.

DISPENSER-BOOKKEEPER: Surgery or Institution; indoors preferred. "Leopold," 64 Chapel Field Road, Norwich.

DISPENSING, Wednesday and Sunday mornings, with Chemist, Doctor, or Institution. "Mistura," 133 New Kent Road.

EXPERIENCED Dental Mechanic seeks berth; whole or part time. "Dens," 24 Henstridge Place, St. John's Wood, London, N.W.

DISENGAGED; unqualified; aged 29; good experience, Mixed business; used to manage branch. "X.," 65 Russell Street, Portsmouth.

DISPENSER (lady), Minor qualification, desires post with Chemist, Doctor, or Institution. "L.," 9 Glengyle Terrace, Edinburgh.

AS Stockkeeper, &c.; can assist at Counter; not afraid of work; Birmingham district preferred; good references. Apply, 77/7, Office of this Paper.

MANAGER; experienced Prescriber, Extractor, and Optician; highest references; disengaged. "Registered," 8 Belsize Park Terrace, Hampstead, N.W.

QUALIFIED; 26; 9 years' good all-round experience; Photography; excellent references; disengaged January 1. Gwillim 79 Mutley Plain, Plymouth.

MANAGER (30), exceptional all-round experience, requires post, preferably with view to succession or interest in business. "Pharmacie" (76/82), Office of this Paper.

MANAGER, Locum or Senior; experienced Prescriber and Extractor; highest references; terms moderate; now disengaged. "M.P.S.," 714 Bolton Road, Bradford, Yorkshire.

UNQUALIFIED: 30; Assistant; experienced Prescriber, Extractor, Photography; all-round experience; could take management. "Statim," 99 St. John's Road, St. John's, S.E.

TRUSTWORTHY Assistant seeks permanency; outdoors; good experience and references; now disengaged. Bazley, 8 Reginald Villas, Hamstels Road, Southchurch, Southend.

ASSISTANT or Manager; aged 26; married; unqualified; first-class Dispensing and Photography; 11 years' references. Apply, "Veronal," 108 Galton Road, Bearwood, Birmingham.

ASSISTANT or Branch; unqualified; 13 years' experience; good Counterman, Stockkeeper, and Window-dresser; steady and reliable. "V.," c/o Mr. Harker, 176 Elmhurst Mansions, Clapham.

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EXPERIENCED Traveller desires re-engagement; Drugs or Spécialité. 76/3, Office of this Paper.

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GENTLEMAN, with good experience and connection as Drug Traveller in Africa, wishes engagement with a good house. "D." (76/38), Office of this Paper.

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TRAVELLER, energetic, experienced, and successful, requires engagement by good Drug or other house; qualified Chemist; excellent record as Salesman and connection; intimate knowledge Drug and allied trades, and first-rate references. "Bergamot" (77/20), Office of this Paper.

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are mailed every week to hundreds of inquirers, and delivered to them on Friday by the same post as "The Chemist and Druggist." They are thus enabled to reply very promptly to any advertisement which suits their needs. All that is necessary to secure the Supplement in this manner is to send a supply of stamped and addressed wrappers or envelopes to **The Publisher** of "The Chemist and Druggist," 42 Cannon Street, London, E.C., when a Supplement will be mailed every week for delivery in any part of the country, as stated above. Inquirers thus save the trouble of weekly application, and are sure of getting what they want, because "The Chemist and Druggist" Supplement is not only the approved medium for advertisements of this character, but has the largest circulation and gives the best results.

The Supplement may also be obtained on personal application at or after 9 a.m. on Friday Mornings at 42 CANNON STREET, LONDON, E.C.

Friday's News.

Accidents and Explosions.

An explosion of benzine occurred in the laboratory of the Glasgow Royal Infirmary dispensary on December 18, and one of the attendants was severely burned about the face.

Mr. George Orr, principal chemist in the laboratory of Messrs. Cockburn, Ltd., East Howard Street, Glasgow, was on December 21 burned by an explosion in the laboratory. A female employee was also burned, but not so severely as Mr. Orr.

Mr. Robert Hardie, chemist, Kingskettle, had a narrow escape from injury on Christmas Day, when a farm horse with waggon bolted and went right through the window of Mr. Hardie's shop, doing considerable damage, and just missing Mr. Hardie.

Mr. J. Young, chemist, Torquay, had a disconcerting experience on December 24, when a syphon of soda-water burst in his shop with tremendous force in front of the dispensing counter, and injuring two customers slightly. The assistant had a narrow escape, half of the syphon just missing him.

Business and Personal.

A doctor's shop at 980 Govan Road, Govan, has been closed.

Mr. Roden Johnston, Downpatrick, has again obtained the contract for the supply of medicines and dressings to Down County Infirmary.

Messrs. Coopers, Ltd., 126 Oldham Road, Miles Platting, have opened a new pharmacy at the corner of Lamb Lane, Manchester.

Mr. J. C. Lloyd, chemist, Lewes, has secured the contract for the supply of drugs and surgical appliances to the Lewes Union for 1908.

Mr. Joseph Bournemouth, mineral-water manufacturer, Wavertree, Liverpool, who died on July 15, left estate valued at 19,124*l.* 8*s.* 1*d.* gross, with net personalty 1,647*l.* 15*s.* 5*d.*

Mr. J. Wilson Dougal, who is partner with Mr. D. B. Dott, 10 Abbeymount, Edinburgh, received the degree of B.Sc. (Agriculture) at the Edinburgh University on December 20.

The report of Parke's Drug-stores, Ltd., for the year which ended on September 30 states that the net balance for the year amounted to 5,015*l.*

Councillor A. Russell Fox, F.L.S., M.P.S., attended at the Crookesmoor Vestry Hall on December 20, and distributed Sanderson's charity to aged widows. Previous to the distribution the recipients partook of refreshments which had been generously provided.

A lawsuit arising out of the will of the late Mr. George T. Fulford, the proprietor of Williams's Pink Pills, has been heard at Toronto. The plaintiff was one of the daughters, and her interpretation of the will, that the accumulated surplus income after the payment of the annuities is to be invested for the benefit of the general estate, was the one taken by the Judge.

Mr. Faithful Palmer, pharmaceutical chemist, Cheltenham, Glos, who died on November 16, aged ninety-one years, left estate of the gross value of 8,474*l.* 8*s.* 2*d.*, with net personalty 5,585*l.* 14*s.* 8*d.*, and probate of his will has been granted to his son, Mr. Frank Thomas Palmer, chemist, Cheltenham, his daughter, Miss Alice Frances Palmer, and Mr. Rowland Tiehurst, Cheltenham, solicitor. The testator left an annuity of 60*l.* to his grandson Reginald Faithful Palmer until he is twenty-one years of age, and thereafter he is to receive 1,500*l.* The testator's wife, son, and daughter Alice also benefit under the will.

Festivities.

Messrs. Cuxson, Gerrard & Co., Birmingham and Oldbury, on December 19 gave a dinner to their employees at the Acorn Hotel, Birmingham, Mr. A. W. Gerrard, F.C.S., presiding. "The Firm" was proposed by Mr. J. C. Brewer, senior re-

presentative of the road, to which Mr. J. Cuxson replied. After the dinner a concert was held.

A most enjoyable Cinderella dance was given on December 20 by the "No. 10 Club"—the social club of the past and present employes of W. Martindale, of 10 New Cavendish Street, W.—at the Cavendish Rooms, Mortimer Street, London, W. Miss De Morgan and Dr. W. H. Martindale received the visitors. A most enjoyable evening was spent, and thanks are due to the Dance Committee, consisting of Messrs. T. W. Hughes (Hon. Secretary), J. C. B. Reis, and J. E. Bussey (stewards).

The Ointment Acquitted.

Dr. Wynn Westcott, Coroner, held an inquiry at the Shore-ditch Coroner's Court on December 24 respecting the death of Margaret Tibbit (53), who had had a sore leg, and got "a pennyworth of ointment" from Mr. Leetes, chemist, of Shepherds Walk, City Road. Some of the ointment was used, but erysipelas set in, and deceased was removed to the infirmary, where she died on December 19. The evidence of Dr. Geo. Ernest Froggatt, medical superintendent, showed that death was due to erysipelas, and the Coroner remarked to the jury that no ointment will cause erysipelas. The jury acquitted the ointment, and returned a verdict in accordance with the medical evidence.

Educational.

BATH AND WEST OF ENGLAND COLLEGE OF PHARMACY.—On Saturday, December 21, the football team of this College played Stothert and Pitts' Reserves F.C., and beat them after a fast game by 4 goals to 3.

SOUTH OF ENGLAND COLLEGE OF PHARMACY.—At the sessional examination the following awards were made: *Silver Medal*, Mr. H. G. Slater; *Bronze Medal in Pharmacy*, Mr. J. B. Barry; *Certificates of Merit*, Mr. H. G. Slater and Mr. R. J. Edgar; *Bronze Medal in Chemistry*, Mr. H. G. Slater; *Certificate of Merit*, Mr. B. G. Watson; *Bronze Medal in Botany*, Mr. J. B. Barry; *Certificates of Merit*, Mr. R. J. Edgar and Mr. L. W. Lester; *Bronze Medal in Materia Medica*, Mr. J. B. Barry; *Certificates of Merit*, Mr. H. G. Slater and Mr. B. G. Watson; *Certificates of Merit in Dispensing*, Mr. J. Barham, Mr. J. B. Barry, Mr. F. W. Fowkes, Mr. F. Bentley, Mr. G. Jenkins, Mr. O. E. Hickson, Mr. R. J. Edgar, Mr. H. G. Slater, Mr. G. Skinner, and Mr. T. N. W. Smith.

Scotch Legal Cases.

WE recently reported that an action had been commenced in the Court of Session, Edinburgh, by Mrs. Caird (widow of Mr. William Caird, traveller, to Messrs. J. F. Macfarlan & Co.) on behalf of her daughter and herself against the North of Scotland and Orkney and Shetland Steam Navigation Co., Aberdeen, for 1,000*l.*, as damages in respect to the death of Mr. Caird. The ground of the action was that while Mr. Caird was getting on defenders' steamer at Lerwick he was caught by a rope, and two of his ribs were broken, which resulted in his death at Tain ten days after. After two days hearing this week the jury decided that the defenders were liable, and assessed the damages at 250*l.*

In the same court on Tuesday, before the Lord President and a jury, John Padkin, horse-driver, Bothkennar, near Grangemouth, claimed 750*l.* from Peter Bell, veterinary surgeon, Falkirk, for the loss of an eye. It appeared that in October 1906 the defender was called in to prescribe for an injury which a horse had sustained to its leg, and that he ordered the pursuer to syringe the wound with carbolic acid, which he gave him. In doing so some of the liquid escaping from the syringe went into the pursuer's eye, which resulted in the eye being destroyed. The defender said he gave the necessary instructions for the use of the lotion. Later, the pursuer proposed to amend the record by a plea that the label "Poison" had not been put on the bottle in accordance with the Pharmacy Act, 1868, but at the same time the defender proposed to put in an amendment to the effect that the pursuer had already received compensation from his employers under the Workmen's Compensation Act. In consequence of the latter amendment the action was settled.

The Week's Poisonings.

Twelve poisoning fatalities have been reported during the week, all apparently being suicides. Laudanum in overdose was taken by George Cooper, a Moss Side (Manchester) joiner, and by a Rhyl man named Williams.—Peter Coburn (59), of Newcastle, poisoned himself with carbolic acid, and the same poison was taken by a Rochdale painter named Law.—Edward Grove, of Battersea, put rat-poison in his beer and died from strychnine-poisoning.—Charles Henry Butler (24), a Leeds man, poisoned himself with prussic acid in a Morecambe hotel.—A woman named Aubrey committed suicide at Margate by taking oxalic acid.—John Keith Reid (59), an inventor, who resided at Lamb's Conduit Street, W.C., drank 4 oz. of chloroform and four bottles of chloroform and died. The unscheduled poisons taken included hydrochloric acid by Margaret Roberts (50), of Myddleton Street, W.C.; liquid am-

monia by Joseph Price Wilkinson, a Manchester publican; yew-leaves chewed by a Devonport man named Attwell; and oil of juniper swallowed by a Sheffield woman named Hix. In the Devonport case a doctor at the inquest said yew-leaves contained taxine, a very active poison, which caused the man's death. At the inquest at Sheffield on the woman Hix it was stated that she obtained the juniper for kidney trouble from Emily Rose, a herbalist, of Walkley. A doctor said he had never heard of juniper oil being taken for the kidneys.

Drug-markets.

The drug, chemical, and produce markets closed on Tuesday, December 24, and will reopen to-day (Friday, December 27), but business will be quite unimportant from now until the end of the year. Norwegian cod-liver oil is firm, with sales of small parcels at the parity of 64*s.* per barrel, f.o.b. Bergen. The exports from Bergen to date amount to 13,271 barrels, against 16,191 barrels.

We have this morning (December 27) advice from Smyrna (December 20) about opium which states that no business has been done. Excessively cold weather has prevailed, which, if continued, cannot but be prejudicial to the poppy. Large holders hope that the position will continue to be maintained, even if consumers keep out of the market for a month or two longer.

From New York our correspondent, writing on December 17, states there have been few developments of any importance; there are no signs yet of a working agreement between the German and American bromide-manufacturers, and keen competition between them has resulted in a further reduction of 2*c.* all round, the new prices being ammonium bromide 20*c.*, potassium 15*c.*, and sodium 18*c.* Owing to pronounced scarcity of Canada balsam the market is firm, and holders of the cheaper stocks have advanced their quotations by 10*c.*, to \$3.60 per gal. Cascara remains fairly steady at 9*c.* to 11*c.* A few lots have been taken for both foreign and local account. Copaiba is in light supply, and firm. The local stocks of genuine C. and S. American are fairly well concentrated in a few hands, and 50*c.* to 55*c.* is asked. Para is steady at 90*c.* to \$1.00. Wintergreen leaf oil is scarce and firm; several round lots have been sold at \$3.50, and up to \$4.00 is asked. The market for birch oil continues irregular at \$2.25 to \$2.75, and one lot of 500 lb. sold at \$2.50.

German Spirit.

The annual report of the Spirit Centrale states that "the year 1906-7 may be regarded as having been particularly favourable from an industrial point of view, considerable progress having been made in every branch of the industry. Three hundred and one million litres of pure alcohol was consumed by the various enterprises during the year, and the delivery returns of rectified and denatured spirit amounted to 349 million litres. The total amount of spirit held in bond by the Union was decreased during the year from 104 million to 56 million litres. The realisation (Verwertung) price amounted to 25*m.* 81*pf.*g. per hectolitre, the premium paid to the rectifiers being 4*m.* 60*pf.*g. The official delivery total is the highest yet known, and the nominal consumption for drinking-purposes (244 million litres) was considerably higher than in the previous year. The consumption of wholly denatured spirit showed an increase from 94 million to 105 million litres. The consumption of partially denatured spirit has also increased, though not to such an extent, and there has been a considerable advance in the export returns. According to the official statistics, 21.5 million litres was exported, in addition to which there is a certain quantity which was already sold and delivered before October 1, but only entered in October or November. The high export returns are principally due to the absence of competition on the part of Austria and Russia. In September 1907 the price for first-quality rectified spirit was raised by 1*m.* 80*pf.*g., to 51*m.* 80*pf.*g. The price of wholly denatured spirit remained unchanged during the year.

Gazette.

Partnership Dissolved.

DUFFY, P. J., and CROWLEY, M., Khedive Road, Forest Gate, and Upton Lane, Forest Gate, E., under the style of Duffy & Crowley, physicians, etc.

The Bankruptcy Acts, 1883 and 1890.

ADJUDICATIONS.

CROOKES, JOSEPH, Scarborough, Yorkshire, chemist.
JOHNSON JAMES EDWARD JOHNSON, the Crown Works, Marsh Gate Lane, Stratford, E., chemical-manufacturers.
MASSEY, WILLIAM, Maghull, Lancashire, mineral tooth-manufacturer.

MISCELLANEOUS.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d.

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WANTED (subject).—200 Idris "A" Ordinary, 10s., 100 "A" Preference, 11s.; Meggeson Ordinary and Preference. Share list free. Bankers, London and County.

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Classes in preparation for the May Examinations will commence in Manchester early in January.

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SHARES.

SHARES for sale. See above.

MISCELLANEOUS.

GOOD dental chair, £4; bargain. **DENT, 4 Chatsworth Road, Stratford, London.**

SEMI-ROTARY oil pump, in perfect order; what offers? **SIMCO, Cambridge Street, Wellingborough.**

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MICROSCOPE, with polariser, mechanical stage, rack pinion micrometer adjustment, 6 powers, cost £20, accept 5 guineas; American cylindrical shop stove, cost 27s. 6d., new condition, accept 12s. 6d. **151 Castle Road, Bedford.**

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PRESENT address of Mr. David Misell (late of America Square). **77/1, Office of this Paper.**